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DODGE'S GEOGRAPHY OF IOWA

By

W. N. CLIFFORD

Superintendent of Schools, Council Bluffs, Iowa

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THE GROWTH AND DEVELOPMENT OF CITIES

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THE INTRODUCTION

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TOME Geography is usually the first work to be taken up in any study of geography because beginning students need to know first the geography of the locality in which they live, in which they are most interested, and with which they are most familiar from personal experience. The results gained from a study of the region they can see gives them the ability to understand remote regions that can only be pictured or described to them Because our own home locality is of most interest to us is also a reason why we need to know it better than we need to know any other region of the world. Hence at some time during the school course it is most valuable to make a careful study of the state or group of states in which we live that we may have a better understanding of the geography about us than we can get from the necessarily brief accounts given in a text-book of geography.

In a text-book of geography we study the relation of one state or group of states to the whole country of which our home region is a part, and our commercial relations to the world as a whole. It follows that in such a treatment the characteristics that distinguish our own home regions must largely be lost to sight in the consideration of the great features that distinguish the country as a whole

In a special text-book devoted to one state or group of states we can learn more about our own region, its important surface features, its climate, the occupations of its people, its products, its local commerce, its history, its chief cities, and many other features of great interest to us. Hence we need to make a special study of our home locality after we have studied the larger region of which it is an important part. A local geography is not only valuable for study in school that we may know well the region about us, but it is valuable also as a reference volume to which we can refer for facts about our own state in our homes whenever in our reading or conversation some question arises concerning our own state which needs to be answered at once.

In this text-book the surface features, the climate, the soil and other natural resources which determine the occupations of the people are studied first because they are the large features which determine the distribution and success of industries. One of the great lessons the student learns in geography is Man's absolute dependence upon Nature for his existence. In lowa, as in other regions, topography and climate pointed out the path of development that communities must follow in order to make sure their existence within its borders. In the pages that follow, the student finds traced the fundamental conditions that have moulded lowa life. After these come the historical events that are landmarks in the growth of the state, and then the study of the industrial and commercial features is taken up. To these, which explain the reasons for the development and growth of the larger cities, and which show us why our own region is important to the country as a whole, careful attention has been given.

Certain facts like the distribution and character of educational institutions, the distribution of congressional districts, and the form of government in the region are included, because our knowledge of our own locality would be incomplete without them. These fittingly illustrate the political unity that binds together the interests of all the individuals who form the bodypolitic which we call the state.

That this book may prove especially valuable as a reference work which may properly be made a part of the family library for constant consultation on many points, carefully prepared diagrams, tables of statistics, and references to further reading have been included.

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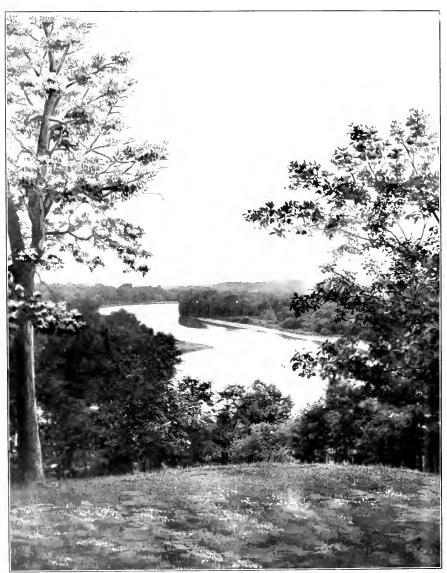
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A VILW OF THE TOWA RIVER, NEAR TOWA CITY.

THE GEOGRAPHY OF IOWA

By W. N. Clifford, Superintendent of Schools, Council Bluffs, Iowa.

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I. IOITA AS A ITHOLE

from the Atlantic and the Pacific oceans and lies about midway between the north pole and the equator. East, in the same latitude. are Chicago, Milwaukee, Detroit, Cleveland, New York, Boston. Madrid, and Constantinople; to the

west are Omaha, Salt Lake City, and Vladivostock. (Adv. Geog., Figs. 161 and 192.)

Size. Iowa is rectangular in shape. It is about 300 miles long and 200 broad, and has an area of 56,147 square miles, of which 561 are water. Wisconsin, with 56,066 square miles, is often called its "twin state." (Fig. 3.)

Surface and Drainage. The highest point in Iowa is Ochevdan Mound, Osceola County, 1,651 feet above the sea level;

the lowest point, about 450 feet above sea level, is at the mouth of the Des Moines Position. Iowa is almost equally distant | River in the southeastern corner of Lee

> County. The average elevation of the state is about 1,100 feet. (Fig. 8.)

> Although Iowa is called a prairie state. her prairies are not so monotonously level as are those of the states farther east Much of the northern part

is gently rolling (Adv. Geog., Fig. 261), while in the south there are hills and vallevs with large tracts of woodland. Along the Mississippi and Missouri rivers are bluffs from 200 to 300 feet in height, and bordering the Cedar are vertical palisades reaching upward nearly 150 feet. (Fig. 5.) In the northeastern

corner of the state along the Mississippi

River these bluffs are rocky, with bold,

irregular outlines, making that section of

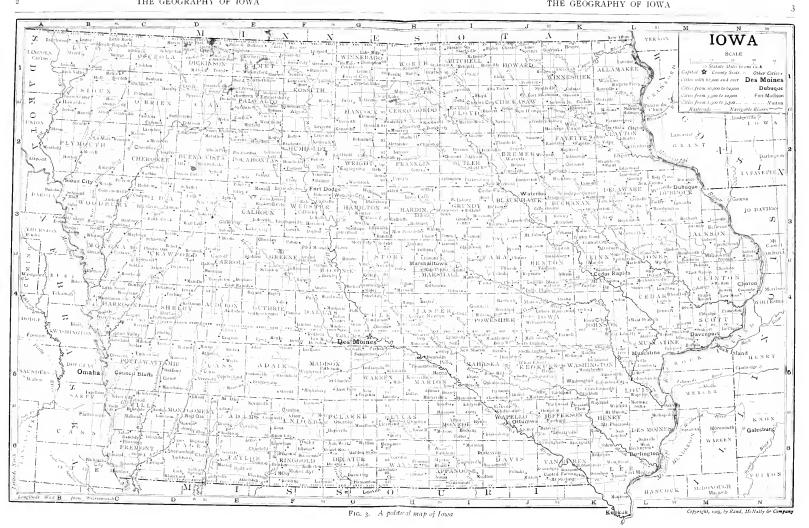


Fig. 1. Scene on a stock farm, in Story County, where high-grade



An Iowa compeld after the cutting. Here the stalks have been formed into shocks to be used tater as fodder.

THE GEOGRAPHY OF IOWA THE GEOGRAPHY OF IOWA



considerable scenic interest. (Fig. 18.)

The eastern and western boundaries of lowa are formed by rivers. Into these streams flow all the rivers of the state. Parallel to the Missouri River, and about sixty miles east of it, is

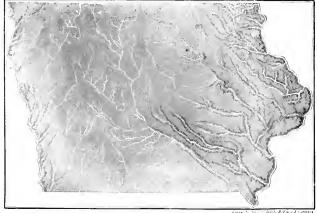


Fig. 4. A relief map of Iowa.

a greater surface than the rivers of the Missouri slope, they are larger and longer and afford better water power. The Des Moines River, 500 miles long, is the largest river within the state. Other important rivers

which flow into the Mississippi, draining the eastern slope of Iowa, are the Upper Iowa, Turkey, Maquoketa, Wapsipinicon, Cedar, Iowa, and Skunk.

On the western slope the soil deposit is very deep and the rock surface is found only at a depth of 200 feet or more. For years the rivers which flow into the Missouri have been cutting channels through this porous soil. Their banks, therefore, rise precipitously from the water. The largest of these rivers are the Big Sioux, Floyd, Little Sioux, Boyer, and the Nishnabotna.

a divide extending from Spirit Lake to the southern boundary of the state. (Fig. 8.) West of this divide, the streams flow into the Missouri; east of it, into the Mississippi. The eastern drainage basin includes more than two-thirds of the state. (Fig. 4.)

The river valleys of the eastern portion of the state are very beautiful. (Fig. 6.) Their flood plains vary from one to ten miles in width and are bordered by picturesque cliffs and bluffs. The beds of the rivers are of solid rock, gravel, or sand. Hence their waters are clear. Since they drain

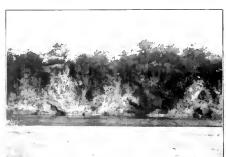


Fig. 5. The gest-lad palisades of Cedar River. These blugs are jamous for their scene beauty.



Fig. 6. The Iowa River, near Iowa City. A characteristic river scene in eastern Iowa.



Fig. 7. Spirit Lake, the largest body of water in Iowa.
It is a well-known summer resort.

beautiful and, as a summer resort, the most popular. Okoboji is six miles long and two and one-half miles wide. The water is clear, the beach sandy, and the fish are abundant. Fine hotels and cottages fringe its banks and to these come every summer hundreds of tourists and sportsmen.

Bodies of water such as are found in Sac, Wright, and other counties called walled lakes are so named because of the embankments of rocks along their shores. These walls or embankments were gradually built up by the action of the waves dash-

ing against the shore, together with the expansive force of the ice. They are remarkable because they look like walls built by man. In some places the walls are ten feet high and many feet across. Nearly all of the glacial lakes are inclosed by

In the early days settlements were made in the river valleys. for here the trees grew. Many of these pioneer settlements have grown into thriving cities and towns, the rivers supplving city 1000 to 1500 feet □ 1500 feet and over water, power 500 to 1000 feet Fig. 8. A physical map of Iowa. for electric-

light plants and factories, and facilities for shipping lumber. Among these early settlements were Dubuque, Keokuk, Fort Madison, Burlington, Council Bluffs, Des Moines, and Iowa City.

There is no large body of water in Iowa, but numerous small lakes occur, many of them notable for their great beauty. In northern Iowa, belonging to the Minnesota lake system, are Spirit Lake, Lake Okoboji, Silver Lake, and Swan Lake. (Figs. 7 and 9.) These are called *drift lakes* because they were formed during the glacial epoch. Of these Spirit Lake is the largest and Okoboji is the most



Fig. 9. Okoboji Lake. Notice the line of woulders which has been pushed ashere by the box.

such embankments. With the exception of the alluvial or oxbow lakes (Adv. Geog., Fig. 49) scattered throughout the flood plains of the state, which are really only large ponds left when the rivers changed their courses, all the lakes of Iowa are of glacial origin.

Soil. There is a greater acreage of tillable soil in Iowa than in any other state in the Union; 95 per cent of all the land in the state is capable of cultivation, with the result that the total value of the soil is as great as that of all the gold and silver mines in the world. Much of

this soil was brought by glaciers from the far north, and as it was mingled with the limestones and shales of British America it became a kind of rock flour. (Adv. Geog., Fig. 180.) This was deposited over a large part of Iowa, and is called drift. (Fig. 11.) For centuries decayed vegetable matter was mixed with the drift, darkening its color. In many places this soil is hundreds of

feet deep, but that which is brought up in digging wells is as rich as that found on the surface. As the soil is porous, water seeps through it readily. It is almost free from gravel and rocks, consequently the most improved farm

machinery can be used to the greatest advantage.

Ages ago winds blowing over the dry plains of the Dakotas and of Nebraska carried quantities of fine dust, which was deposited along the margins of the drift

areas in the western and southern parts of Iowa. Slowly but surely, soil of from 100 to 200 feet in depth was formed. This soil, called locss, is of wonderful fertility and is much like the soil along the banks of the Rhine. (Fig. 11.) It is free from gravel and the plow



Fig. 10. A typical jarm scene in Benton County. This lies in the loss region.

cuts it like cheese, yet it resists weathering, and the vertical faces left by railroad or other excavations will stand for years without washing. It absorbs water like a sponge and holds it during a season of drought. Wherever loess is found in Iowa, fine orchards and vineyards abound. (Fig. 10.)

The soil of the valleys and flood plains of the rivers consists of waste carried down

> by the rivers from the higher levels. This soil, known as alluvium, is formed of eoarser materials than drift. or loess and is the richest in the state. The Missouri lowlands of the western slope constitute the most important tract.

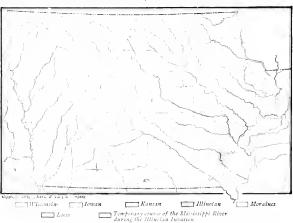
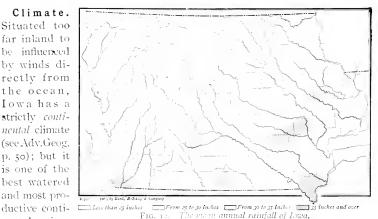


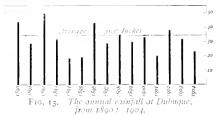
Fig. 11. A soil map of lowe, showing the glacial drift deposited.

Climate. Situated too far inland to be influenced by winds directly from the ocean. Iowa has a strictly continental climate (see Adv. Geog. p. 50); but it is one of the best watered and most pronental regions



in the world. Since the time of settlement there has not been a total failure of crops. There have been some poor seasons, but the poorest would seem abundance in a less favored section. The most severe drought in the past fifty years occurred in 1894; vet in that year Iowa produced 256,000,000 bushels of cereals. (Figs. 13 and 14.)

The most important feature of the climate of Iowa, from an agricultural standpoint, is that the time of the greatest rainfall is in the growing season, or from April to September, inclusive. The winters are comparatively dry, having only 10 per cent of the yearly rainfall. The annual rainfall is about thirty-five inches; in regions where there is less than twenty inches irrigation is necessary. (Fig. 12.) In climatic position Iowa is most fortunate; while situ-

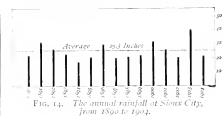


the excessive rainfall of the Gulf States where the soil is washed and leached so much that fertilization is necessary, it is vet within a region that has sufficient moisture to enable it to be one of the greatest

ated north of

eereal-producing regions of the world.

In Iowa the winds from the west and northwest are cool and dry, while those from the east and south are warm and bring rain. There is a wide range of temperature between summer and winter. One hundred degrees is quite common in summer and 40 degrees below zero often is recorded in the northern part of the state in winter; yet these temperatures are well suited to the crops. Corn requires from 90 to 130 days to mature. As it is usually planted in May, hot days in July and August are necessary for its development. On the other hand, severe frosts, penetrating to a great depth, pulverize the soil so that rain and warmth affect it more readily. The cold of winter is mitigated by the dryness of the air during that season, and the heat





\$2,500 to \$5,000 per square mile \$5,000 per square mile and ove FIG. 15. The value of farm products per square mile.

of summer is made endurable by the almost constant breezes.

Vegetation. When the white settlers came to Iowa fully seveneighths of the

prairies were treeless. This condition now is thought to have been eaused by prairie fires, but the pioneers supposed that the soil was not adapted to the growth of trees. However, as soon as extensive tracts were settled, wind-breaks were planted to protect houses and farm buildings from the wintry blasts, and farmers found that nearly all deciduous trees would thrive. In later years part of a farmer's taxes were remitted if he set out a certain area in trees, and groves of cottonwood, willow, and box-elder

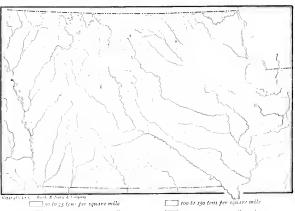


Fig. 16. Cutting and hauling hay near Ottumwa.

soon rewarded the farmer's efforts. An extensive region around Storm Lake which pioneers found perfectly bare is now covered with one of the finest woodland groves in the country. In traveling over Iowa one will find elm, oak, linden, and maple trees in large numbers.

From the earliest days the prairies of Iowa have afforded fine pasturage. Native grasses still are to be found and large crops of blue grass, timothy, and clover are now

grown throughout the state. Wild flowers such as goldenrod, asters, wild roses, and honey-suckle everywhere add to the beauty of meadow and woodland.



73 to 100 ton fer square mile 150 tons fer square mile and over Fig. 17. The production of hay and forage per square mile.



Fig. 18. Cutting corn in Linn County. Here pumpkins have been grown between the corn rows.

Agriculture and Stock Raising. For the

production of great crops the prime factors required are good soil and a favorable climate. Iowa has a large acreage of rich soil. an abundant rainfall, and a climate splendidly adapted to the growth of grains; hence it is well

19, 21, and 23.) In 1902 and 1903 Iowa ranked second in the production of hay, corn, and oats. It stands fifth in flax. (Adv. Geog., Figs. 260, 263, and 271.)

With so great a yield of hay, corn, and oats, it naturally follows that the farmers have fine live stock. (Figs. 1 and 24.) Of its fine horses Iowa may well be proud, for although in 1903 Texas produced more horses, Iowa's horses sold for a greater total. (Adv. Geog., Fig. 267.) In the same year Iowa ranked first in the number of hogs raised. (Fig. 25, and Adv. Geog., Fig. 269.) Beef cattle are raised in large numbers, and fine herds of milch cows

make Iowa famous for its dairy products. (Figs. 28 and 30, and Adv. Geog., Figs. 224, 225, 250, and 251.) Sheep are herded in large numbers in several sections.(Fig. 29.) The light, dry, well-drained soil helps to make poultry



fitted to take a foremost place as an agri- raising an industry of much importance.

cultural state. Practically one-half the population is engaged in farming. (Figs. 2, 16, 18, 20, 22, and 26.) Hay, corn, oats, flax, barley, rye, and potatoes are raised in great quantities. (Adv. Geog., Figs. 250, 262, and 270.) Iowa is one of the leading states in the total value of its grains and general agricultural products, also in the total value of its live stock. (Figs. 15, 17,



Fig. 20. Reaping one of the great wheat fields in Lyon County.

Nearly all cities and large towns have truck gardens near by to supply their markets. Apples, grapes, cherries, and small fruits are raised in the southern part of the state. (Fig. 27, and Adv. Geog., Fig. 201.)

Mineral Resources, With rich soil and abundant rainfall. Iowa would have become a wealthy state even though it had no minerals: but it is still more favored. Besides the fertile loam, the continuous sunshine and the abundant moisture so necessary

to the growth of cereals the state has valuable mineral wealth

The most important mineral is bituminous coal. About 20,000 square miles of lowa's

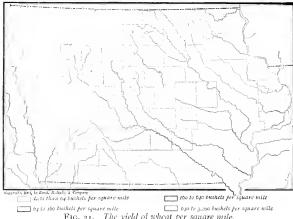


Fig. 21. The yield of wheat per square mile.



A field after reaping and shocking in the great out district of Benton County.

Moines River are the most worked. The total output of coal for 1903 was 6,419,811 tons. In 1902 Iowa ranked ninth in tonnage and seventh in value of coal mined.

prairies are un-

derlaid by this

valuable fuel.

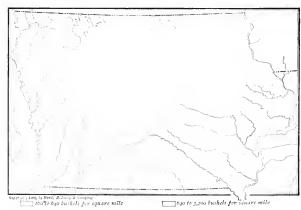
(Fig. 31, and

Adv. Geog., Fig.

221.) The mines

along the Des

One of the finest gypsum deposits in the United States is near Fort Dodge, in Webster County, the deposits varying from ten to twentyfive feet in thickness. In the last few years the use of gypsum has increased greatly. It is now employed in making plaster for stuceo, in the manufacture of calcimine, as a basis for paint, and as a fertilizer. There is a large



3,200 bushels for square mile and over Fig. 23. The yield of oats per square mile,

Various kinds of

limestone adapted to

building purposes, road making, and the

manufacture of con-

crete and lime are

found in inexhaustible

quantities and quar-

ried in several parts

of the state. (Fig. 32.)

mined near Dubuque

and some iron is

Lead and zine are

number of mills in operation at Fort Dodge, where the fine railroad facilities give excellent prospects for a still more extensive output of gypsum products. In 1903 lowa ranked third in the quantity of gypsum produced.

Deposits of clay suitable for use in

distributed

used for manu-

the manufacture of paving bricks, tile, found in Allamakee County.

Manufacturing. So long as the early

settlers were richly rewarded for tilling the soil they gave little attention to manufacturing. Later. when the farm lands were all taken up and the population had increased, the great possibilities for various kinds of manufacturing were

throughout the state. The making of brick is becoming an industry of great and growing importance. In 1902 Iowa ranked eighth in the value of clay products. Shale is plentiful and widely distributed. Tes to so head per square mile 50 to 100 head per square mile (Fig. 33.) It is

100 head for square mile and over Fig. 25. The number of hogs per square mile.

and pottery are widely and abundantly

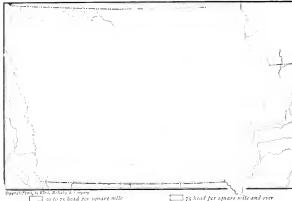
facturing vitrified paying and building brick. | discovered. Water power was abundant,



Fig. 26. Oats stacked ready for threshing.



Fig. 27. An orchard scene in southern Iowa.



so to 75 head fee square mile 75 head fee square mile 162 The number of neat cattle per square mile

coal underlay immense areas (Fig. 35), and there were splendid shipping facilities. Supplies of gypsum, clay, lead, and other raw materials were found within the state

It followed naturally, therefore, that people began to establish factories of various kinds. Although all of the industrial enterprises are young, yet in the year 1900 the value of manufactured products was \$164,617,877.

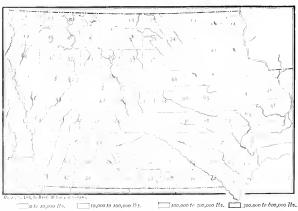
Without her immense coal areas, Iowa's prospects of becoming a great manufacturing state would be small. As coal is found in thirty counties it can be carried easily over the state at small cost, thus giving impetus everywhere to manufacturing. (Fig. 35.)



Fig. 29 Sheep feeding in a farm yard in Wright County.

The principal manufactures in the order of their value and the leading centers of their industries in 1900 were: meat products(Sioux City) (Fig. 55). factory made butter, cheese, and condensed milk (Des Moines, Waverly), (Fig. 30). flouring and grist mill products (Sioux City, Des Moines). timber and lumber products including sash, doors, and blinds (Dubuque, Clinton), (Fig. 58), cars and car repairs (Council Bluffs, Des Moines). the products of printing and

publishing (Des Moines, Sioux City), foundry and machineshop products (Davenport, Burlington), carriages and wagons (Dubuque, Burlington), food products



F16. 30. Value of dairy products by counties in 1903. The figures denote the rank in production of each county.

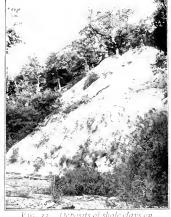
(Cedar Rapids), elay products (Des Moines, Sioux City), pearl buttons (Muscatine, Davenport, Clinton). (Fig. 39.) Iowa will remain an agricultural state; but the time is not far distant when it will rank high in manufactures.

Commerce. When a state produces much more than the wants of its people demand, it needs to be situated on great lines of trade, and in this respect Iowa is admirably located. The Mississippi River furnishes an easy route for north-south transportation (Fig. 38), and the eight great railroad lines coming into the state from the East, and meeting at Council Bluffs, provide excellent east-west transportation facilities and help to make this city a general distributing point for the Far West. Iowa's commerce consists chiefly in exporting grain, live stock, and similar commodities and in importing manufactured products. No point in the state is distant more than



Fig. 31. Section of upper coal measures, Montgomery County. Note the intervening strats of limestone and shales.

miles from a railroad, and but three states in the Union have a greater railroad mileage; the total in 1904 was nearly 10,000 miles. New avenues of trade are being opened constantly by electric lines.



thirteen
F10. 33. Deposits of shale clays on Gray Creek in Monroe County.

The great trunk line railroads crossing the state are the Chicago, Rock Island & Pacific; the Chicago, Burlington & Quincy; the Chicago, Milwaukee & St. Paul; the Chicago Great Western; the Chicago & North-Western, and the Illinois Central. There are numerous branch lines making connections north and south.

History. The present state of Iowa was originally a part of the great territory of Louisiana purchased from France during Jefferson's administration. At different

times it has formed part of the territories of Louisiana, Missouri, Michigan, and Wisconsin. In 1838 it was made a territory by itself, and in 1846, with its present boundaries, Iowa was admitted into



Fig. 32. Quarrying stone near Stone City in Jones County.

the Union, the first free state in the Louisiana Purchase.

The first white settlement in Iowa was made at Dubuque, about 1788, by Julien Dubuque, an adventurous French Canadian trader who settled among the Indians. Here he opened lead mines, built a smelting furnace, and established a fur-trading post. (Fig. 54.)

At the close of the Black Hawk War in 1832 the United States purchased the land from the Indians, who then settled in Missouri and Nebraska. Soon came the



Fig. 34. Miners working in the interior of a mine, Appaneous County.

white-topped immigrant wagons bringing whole families from New England, Ohio, and other eastern states.

In 1852 another tide of immigration began. Besides large numbers from the east there were. Seandi-



Fig. 36. A typical mining scene near Oskalowsa.

navians, Germans, Bohemians, and Irish from Europe. These have proved to be excellent colonizers and good citizens.

The first capital of Iowa was at Iowa City, but as this site was found to be too far east, Des Moines was made the capital in 1857. The state records and papers were transported overland, as there was no railroad. In the same year occurred the Indian massacre at Spirit Lake. (Fig. 56.)

Sac and Fox Indians. During the Black Hawk War some of the Sacs and the Foxes refused to fight against the whites. In derision they were called "Musquakies,"

or deserters

They remained in Tama County where their descendants numbering about 400 still live, occupying a tract of land embracing more than 3,000 acres.

Amana Colony. Among the largest and wealthiest of the communistic



Tron 250,000 to 500,000 tens From 500,000 to 1,000,000 tens 1,000,000 tens and over Fig. 35. The coal fields of love a and the production of coal by counties,

settlements in the United States is the Amana Colony in Iowa County. The people are Germans, industrious and intelligent, and care little for the pleasures of the world. The colony comprises eight villages and extensive areas of farming and pasture lands, 25,000 acres in all. The land is held in common by the community.

Education. No child born in lowa whether he desires to be a scientific farmer, a skilled mechanic, | of the schools is raised by local taxation.

or a professional man, r need leave the state to secure his education. Liberal provision has been made for an excellent system of public schools, colleges, and universities by creating a permanent school fund from money secured by the sale of public lands.



Fig. 37. The great cereal mills at Cedar Rapids.

In maintaining its public schools Iowa expends annually more than \$10,000,000. Of this amount nearly \$5,000,000 is derived from the permanent school fund.

The public school system is under the direction of a state

superintendent, of county superintendents, interest on this fund, money for the support | city superintendents, and local boards.

Women are permitted to hold any school office in the state. The school age is from five to twenty-one years. Children between the ages of seven and fourteen must attend school, either public or private, for not less than sixteen consecutive school weeks of each year. The total chrollment in the public schools in 1904 was 515,010. There are 345 high schools in the state, enrolling in 1904 30,900 pupils.

The state maintains three important institutions for higher education: The State University at Iowa City (Fig.



A steamboat on the Mississippi River.

In addition to the

Fig. 30. Scene in a fearl button factory at Muscatine where they are soaking the clam shells in jresh water to make them less brittle.

THE LEADING EDUCATIONAL INSTITUTIONS OF IOWA.

COLLEGES AND UNIVERSITIES

- 1 Iowa State College of Apriculture and Mechanic Arts, State, Ames.
- 2 Coe College, Presb , Cedar Rapids.
- 3 Charles City College, M. E., Charles City. 4 Wartburg College, Luth , Clinton.
- 5 Amity College, Non-Sect., College Springs. 6 Lutheran College, Luth., Decorah.
- 7 Des Moines College, Bapt., Des Moines.
- 8 Drake University, Christian, Des Moines.
- 9 St. Joseph's College, R. C., Dubuque.
- to Epworth Seminary, M. E., Epworth.

- 11 Parsons College, Presb., Fairfield.
- 12 Upper Iowa University, M. E., Fayette.
- 13 Iowa College, Cong., Grinnell. 14 Lenox College, Presb , Hopkinton.
- 15 Simpson College, M. E., Indianola.
- 16 State University of Iowa State, Iowa City.
- 17 Ellsworth College, Non-Sect., Iowa Falls. 18 Lutheran College, Luth., Jewell
- 19 Western Union College, United Evang. Le Mars.
- 20 Iowa Weslevan University, M. E., Mount
- 21 Cornell College, M. E., Mount Vernon

- 22 Penn College, Friends, Oskaloosa
- 23 Central University of Iowa, Bapt., Pella.
- 24 Morningside College, M. E., Sioux City 25 Buena Vista College, Presb., Storm Lake.
- 26 Tabor College, Cong., Tabor.
- 27 Western College, U. B., Toledo 28 Wartburg Sennnary, Luth., Waverly.
- PUBLIC AND PRIVATE NORMAL SCHOOLS 29 Iowa State Normal School, Cedar Falls.
- 30 Highland Park College, Des Momes
- 31 Western Normal College, Shenandoah.



Fig. 40. Liberal Arts Building State University of Iowa, Iowa City.

40), the State Normal School at Cedar Falls (Fig. 42), and the State College of Agriculture and Mechanic Arts at Ames (Figs. 43

and 46). In addition to the state institutions mentioned, a number of denominational schools, colleges, seminaries, and normal schools supported by endowment or by tuition fees, well distributed over the state, are doing good work for higher education. (Fig. 41.)

State Institutions. The state supports four classes of institutions: Educational, Charitable, Reformatory, and Penal The three last mentioned are managed by a board of control consisting of three members who are appointed by the Governor for six years and confirmed by the Senate. Not more than two members of this board may be from the same political party. This board also manages the finances of the State University, the State Normal School, and the Agricultural College.

State Charities. lowa has been generous in providing for its unfortunate. Among the larger institutions may be mentioned the School for the Deaf at Council Bluffs, the College

for the Blind at Vinton, the Institution for the Feeble-minded at Glenwood, the Soldiers' Home at Marshalltown (Fig. 44),

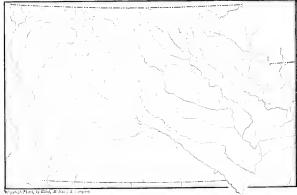


Fig. 41. The leading educational institutions of Iowa.

the Soldiers' Orphans' Home at Davenport (Fig. 51), and hospitals for the Insane at Cherokee, Independence, Mount Pleasant, and Clarinda.

Reformatory and Penal Institutions. The Industrial School for Girls is located at Mitchellville, the Industrial School for Boys at Eldora, and the Reformatory for Females at Anamosa. The State Penitentiaries are two in number and are located at Anamosa and Fort Madison.

Government. Iowa is represented in Congress by two Senators and eleven Representatives, and therefore has thirteen electoral votes. (Fig. 47.) The state government is administered by three departments—the



Fig. 43. Central Building, Iowa State College of Agrialture and Mechanic Arts, Ames.

sentatives elects one of its own members for speaker.

The officers of the executive department are all elected by the people for two years.

The chief executive is the Governor. The other officers of the state department are the Lieutenant-Governor, the Secretary of State, the Auditor, the Treasurer, the Attorney-General, and the Superintendent of Public Instruction.

Much of the executive business is left to the Executive Council, consisting of the Governor, Secretary of State,

Treasurer, and Auditor.

There is a State Board of Control consisting



Fig. 42. I wa State Normal School, Colar Fall.

Legislative, the Executive, and the Judicial. These departments correspond closely to the great departments into which our national government is divided.

The legislative department is composed of two branches, the Senate and the House of Representatives. The Assembly, as the Senate and the House of Representatives are called, meets at the capitol in Des Moines once in two years. (Fig. 45.) There are fifty Senators and 100 Representatives. The Senators are elected for four years and the Representatives for two years. The presiding officer of the Senate is the Lieutenant-Governor. The House of Representatives of Repre



Fig. 44. State Soldiers' Home, Marshalltown.



Fig. 45. State Capitol, Des Moines,



F16, 48. Bluffs at Dubuque. In the timestone formations in these bluffs lead has long been mined.

of three members appointed by the Governor, with the approval of the Senate. This board supervises the finances of the State University, Agricultural College, and the Normal School, and has complete management of all other state institutions. The state department provides a railway commissioner, dairy commissioner, inspector of mines, state printer, and others.

The judicial department consists of a Supreme Court, District Courts, and supervisor, or mayor's and police courts. The heads of all these courts are elected by the

people. The Supreme Court is composed of six judges elected for six years each; and each serves as chief justice during his last year.

I owa has ninety-nine counties and each county has a District Court, Judges



Fig. 46. Campanile, Agricultural College,

for these courts are elected by the people for four years. Cities having a population of 7,000 or more may establish superior courts. Such courts are found in Council Bluffs, Cedar Rapids, and Keokuk.

The counties are governed by officers elected for two years. They consist of a board of supervisors, an auditor, a clerk of courts, a treasurer, a county attorney, a superintendent of schools, a sheriff, a surveyor, and a coroner.

Generally speaking, the government of cities and incorporated towns is administered by a mayor

and a council composed of aldermen A few cities are governed by special charters granted in the early days by the general assembly; these are Dubuque, Davenport, Cedar Rapids, Keokuk, and Museatine.



II. GROWTH AND DEVELOPMENT OF CITIES

Gain in Population. Iowa ranks among the states in which the city or town population relatively is far out-distanced by the rural. The number of persons living in towns having 4,000 or more inhabitants constitutes a little less than one-fifth of the total population. Three facts may be noted in this connection: (1) that eities, towns, and villages are evenly distributed over the state (Fig. 40); (2) that the total town or urban population relatively is small; (3) that there are no great centers like New York and Chicago. (Fig. 50.)

These conditions in Iowa are due partly to the character of its resources and partly to its physical characteristics. Iowa is a prairie state easily accessible from every side, and everywhere fertile. As a consequence farming population and urban centers serving as outlets for farming districts became evenly distributed. Since the mineral, forest, and water power resources are insufficient to support great mining or manufacturing communities agricultural industries remain dominant, and the rural population retains the lead. Physical conditions have caused trade and manufactures to develop at many points with almost equal advantage, hence no one city has attained metropolitan rank. Usually the larger towns are those which have exceptional transportation facilities, and which distribute and manufacture supplies for vast farming areas. In a few instances the growth of cities has been aided by the presence of coal mines or water power.

The population figures of the cities given herewith are from the state census of 1905:

Atlantic (4,893), the county seat of Cass County, eighty miles southwest of Des Moines, lies in the center of an excellent farming district. Among its industrial enterprises are a corn-can- 1950 - 3 ning factory, a planing 1840 .

mill, and wagon works. Adiacent to the town are flourishing nurseries.

Boone (9,500), the county seat of Boone Countv. is located near the Des Moines River, forty-three miles northwest of Des Moines. Coal is mined in the vicinity. Here are shops of the Chicago



in Iowa.

10WA

Fig. 50. The density of urban population in Iowa, census

& North-Western Railway and manufactures of brick, tile, and pottery. It has excellent transportation facilities and ships large quantities of coal.

Burlington (25,318), the county seat of Des Moines County, is well situated

> for trade, being located on the banks of the Mississippi and having good railroad connections. Repair shops of the Chicago, Burlington & Ouincy Railroad are located here. Among the leading manufactures of the city are lumber and lumher products,

engines, agricultural implements, harness, wagons, and pearl buttons.

Cedar Falls (5,329) is in Black Hawk County, ninety-nine miles west of Dubuque and roo miles northeast of Des Moines. It is pleasantly located on the rapids of Cedar River, which gives it superior water power and makes it a natural manufacturing center. Here are mills for flour,

oatmeal, pearl barley, and factories for canned goods, house furnishings, clothing, specialties of various kinds, such as feeders for threshing machines, novelties in hardware, foundry work, and machine shops. It

for its large attendance of students, its extensive course of study designed to meet the needs of all classes of public school teachers, and the unusual financial support given it by the state. (Fig. 42.)

Cedar Rapids (28,757). in Linn County, well located on the Cedar River, is a city of wide streets and pleasant homes. Its water power and excellent railroad connections have made it a manufacturing center. Its cereal mills are the largest in the world (Fig. 37); meat packing, the making of wire fencing, furniture, pumps, flour, and starch are important industries. Coe College is located here.

Centerville (5,967), Appanoose County, has productive coal mines. (Fig. 34.) Among its leading manufactures are machinery, foundry products, flour, wagons, and cement building blocks.

Charles City (4,546), county seat of Floyd County, is well located on the Cedar River, in a fertile agricultural district where market gardening, nurseries, and the raising of live stock afford profitable industrial opportunities to the people. It has excellent railroad service and the river furnishes valuable water power utilized by manufacturing interests. Furniture, bank fixtures,

sash and blinds butter, cheese, and disk harrows are made here. Building stone is quarried in the vicinity. Here is Charles City College.

Clinton (22,-756), the county seat of Clinton County, is a beautiful city

located on the Great Bend of the Mississippi, where three fine bridges span the river. It has excellent facilities for shipping both by water and by rail and is a notable commercial center. The chief manufactures are furniture, wagons, flour, iron and steel goods, locks, boxes, wire cloth, paper, and paper-maché.

Council Bluffs (25,231), the county seat of Pottawattamie County, is picturesquely located on the Missouri River directly opposite Omaha. The river is spanned by several fine steel bridges. The city is the center of a fine live stock, fruit, and grain region, and is one of the most important railroad centers in the West; eight great trunk lines from the East converge here to make connections for the Pacific Coast. Construction and repair shops of several of these railroads are located here. Council Bluffs has an extensive



Fig. 51. The Iowa Soldiers' Orphans' Home at Davenport.



F16. 52. Council Bluffs, on the western border of Iowa. Beyond is the Missouri River, marking the state's limits.



Fig. 53. A bird's-eye view of the city of Dubuque.

trade in farming implements, wagons, and carriages, besides a large wholesale trade. Its manufactures include agricultural implements, wagons, machinery, and lumber products. (Fig. 52.)

Creston (8,382), the county seat of Union County, in the center of the famous Blue Grass region of southwestern Iowa, is an important town 103 miles east of Council Bluffs. It has a good trade in agricultural implements and farm machinery, as well as in general merchandise. It is the location of the largest round house and machine shops of the Chicago, Burlington & Quincy Railroad.

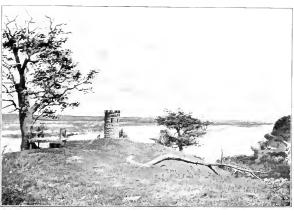
Davenport (39.797), the county seat of Scott County, is situated on the Mississippi River opposite Rock Island, Ill., with which

it is connected by two railroad bridges and a ferry. (Fig. 57.) The city is surrounded by a rich agricultural and coal-mining region which has aided in its development. It is an important railroad center and ships large quantities of grain and other farm products. The manufactures include lumber and lumber products, agricultural implements, engines, wagons, glucose, flour, clothing, cigars, and buttons. Meat packing is a large industry. The educational institutions of the city are unexcelled.

Des Moines (75.626), the county seat of Polk County and the capital and metropolis of Iowa.

is situated very near the center of the state at the junction of the Des Moines and Raccoon rivers. It has become an important railroad center. Extensive mines of bituminous coal near by provide cheap fuel. The abundance of water and inexpensive coal, and its excellent transportation facilities, invite manufactures. Already there are large factories turning out brick and tile, lumber products, furniture, steam engines. agricultural implements, harness, wagons, patent medicines, starch, flour, cigars, woolens, knit goods, and gloves. It is the leading center of the butter industry in the state. The Capitol is a magnificent building erected at a cost of \$3,000,000. (Fig. 45.) The Court House and Post Office are fine edifices. Des Moines offers unusual educational advantages. In addition to an excellent system of public schools, it has Drake University, Des Moines College, and Highland Park Normal College.

Dubuque (41.041), the county seat of Dubuque County, is situated on the Mississippi River, here crossed by three bridges. Two—one a great railroad bridge—connect it with East Dubuque, Ill., the other with the shore of Wisconsin. The city has a large wholesale trade. Lead, zinc, and limestone are found in paying quantities near by. (Fig. 48.) Dubuque has built some war vessels and boats for the Government, and has railway repair shops. Its manufactures



Ftg 54. M nument to Julien Dubuque, at the city which bears his name.



Fig. 55. One of the most extensive of the many important slaughtering and meat-packing establishments of the Middle West is located at Sioux City.

include lumber, sash, doors, blinds, coffins, clothing, shoes, linseed oil, malt liquors, harness, carriages, wagons, agricultural implements, boilers, hardware, and white enamel. There is also a large meat-packing establishment. (Fig. 53.)

Fairfield (5,009), county seat of Jefferson County, fifty-one miles northwest of Burlington, is a well-built town with excellent railway facilities. The surrounding country produces corn, wheat, oats, hay, fine stock, and dairy products. The manufactures are varied; among them are farm implements, wagons, malleable iron, tile, and gloves. Coal is mined near by. It is the seat of Parsons College.

Fort Dodge (14,369), the county seat of Webster County, is situated on the Des Moines River. Its industries are connected chiefly with the agricultural products of the district of which it is the center. Near by are deposits of gypsum, clay, building stone, and coal. Among its manufactures may be mentioned stucco, brick and tile, stoneware, and hydraulic cement blocks.

Fort Madison (8,767), the county seat of Lee County, is a prosperous town on the Mississippi River. It manufactures lumber, plows, cars, agricultural implements, and chairs. A state penitentiary is located here.

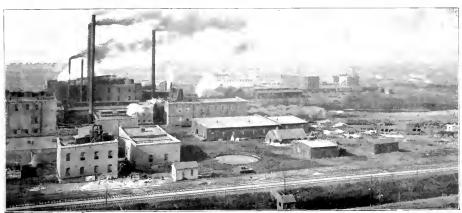
Iowa City (8.459), the county seat of Johnson County, is situated on the Iowa River. It ships large quantities of grain and live stock. Adja-

cent to the city are extensive nurseries. A number of factories are doing a thriving business. Among the manufactured products are agricultural implements, wire fencing, brick, tile, brushes, perfumery, jewelry, and gloves. Here is located the State University. (Fig. 40.)

Keokuk (14,604), the county seat of Lee County, on the Mississippi River at the foot of the rapids, is well fitted by its location to become a city of great commercial importance. The largest river steamers touch its wharves and a government ship canal has been constructed to take boats around the Des Moines River Rapids. The canal is seven and a half miles long and 300 feet wide. The river furnishes valuable water power and Keokuk manufactures machinery, clothing, pickled and canned goods, starch, and shoes. It has a large wholesale trade. A National cemetery is located here.

Le Mars (5,041), county seat of Plymouth County, is twenty-five miles northeast of Sioux City at the junction of two railroads. It is the market town for a fine grain and live-stock district. Among its industrial enterprises are included prosperous flouring mills. It is the seat of Western Union College.

Marion (4,112), county seat of Linn County, six miles northeast of Cedar Rapids, is division headquarters of the Chicago, Milwaukee & St. Paul Railway. It is the market for a fertile



Vast numbers of cattle are received here from farming states and western ranges. The output of packed meats from this industrial plant is enormous.

farming area yielding large crops of grain and much live stock.

Marshalltown (12,045), the county seat of Marshall County, is the trade center for a fine agricultural section. Its manufactures include glucose, starch, linseed oil, machinery, wagons, and buggies. Meat packing is an industry. The Soldiers' Home is located here. (Fig. 44.)

Mason City (8,357), the county seat of Cerro Gordo County, is a railroad center surrounded by fine farms. There are stone quarries in the vicinity. Meat packing is the leading enterprise; lime, brick, tile, and gloves are manufactured, The only Portland cement factory in Iowa is located here.

Missouri Valley (3,330) is situated in Harrison County, twenty miles north of Council Bluffs. Its industrial plants include railroad shops and stock yards. The surrounding country produces grain and live stock, of which large and increasing shipments are made from this point.

Mount Pleasant (3.576) is the county seat of Henry County. Its industrial establishments include planing and flouring mills and factories for house furnishings. Grain is the chief agricultural product of the tributary country, and stock is raised. Mount Pleasant is the seat of Wesleyan University and of the German College. The Hospital for the Insane located here is the oldest in the state.

Muscatine (15,087), the county seat of Muscatine County, is a rapidly growing town on the Mississippi River. Here are one of the largest sash and door factories in the United States and pearl-button factories that give employment to a large number of people. (Fig. 30.) The buttons are made from fresh-water shells. Other manufactures are lumber, cereals, and brick. Market gardening in this vicinity is an important industry, and large quantities of melons and other vegetable products are grown and shipped.

Oelwein (5,632), Fayette County, a prosperous and growing town, and a leading railroad center, is situated in one of the richest farming sections in the state. Its railroad interests are important. The large railroad shops located here do all kinds of repair work and the road makes Oelwein a distributing center of supplies to all parts of its system. It is the market for large quantities of agricultural products.

Oskaloosa (10,203), the county seat of Mahaska County, is situated in the center of a rich coal-mining district. (Fig. 36.) The coal veins in the vicinity are from two to six feet thick. Near the town is clay suitable for paving brick, sewer pipes, and pottery. Manufacturing is increasing. Machinery, brick, and tile are the most important products. Three lines of railroad furnish transportation. Penn College, founded by the Friends, is located here.

Ottumwa (20,181), the county seat of Wapello County, is situated on both sides of the Des Moines River, in the heart of a great coal-mining section. The river here, crossed by two railroads and three iron bridges, furnishes water power for the city's growing manufactures. It has excellent railway facilities. Ottumwa packs meats. manufactures agricultural implements and machinery, and has one of the largest pavingbrick kilns in the state. It has excellent schools.

Red Oak (4.907), county seat of Montgomery County, is situated in the heart of a section noted for its large crops of grain and fruit, and for its live

stock. Its manufactures include bee hives, brick, tile, water tanks, and mills; a foundry, bridge and iron works, and one of the largest calendar manufactories in the world are located here.

Sioux City (40.052), the county seat of Woodbury County, is minety-five miles from Council Bluffs and 260 miles from St. Paul and Minneapolis. It is situated where the Big Sioux joins the Missouri, and is the largest city in northwestern lowa, being the chief center of trade and an important distributing point for that section. It has numerous railroads and two great bridges connecting it with the Nebraska side. Large packing houses, iron works, railway repair shops,



Fig. 56. Okohoji monument, commemorating the Indian uprising of 1857.

clothing manufactories, linseedoil mills, flour and cereal mills, and brick-yards give employment to many people. (Fig. 55.)

Washington (4,489), the county seat of Washington County, situated in a fine agricultural district, is a leading grain center. Large elevators are located here and three railroads provide the town with good shipping facilities. The manufactures include buggies, wagon boxes, eigars, brick, tile, and weighing machinery.

Waterloo (18,071), the county seat of Black Hawk County, a growing town on the banks of the Cedar River, is in the midst of a rich farming section.

It has good railroad facilities and manufactures flour, gasoline engines, locomotives, furniture, sash, doors, refrigerators, and creamery supplies. It has the largest cheese factory in the state.

Webster City (4,797), the county seat of Hamilton County, is finely located on the Boone River in a fertile district midway between the Mississippi and the Missouri. It is at the junction of three railroads, sixty-nine miles north of Des Moines, and ships cereals, fruit, and fine live stock. The manufactures include boots, shoes, brick, tile, and boilers. In the vicinity are coal mines and mineral springs. It has excellent schools, a fine public library, and a notable hospital.



Fig. 7. Bridge v er Mississippi Is, er at Davenport.



Fig. 58. A typical scene in an Iowa lumber yard.

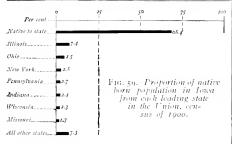
III. STATISTICS AND AIDS TO TEACHERS

Statistics of the State of Iowa by Counties, Federal Census, 1900 and 1910.

Adains. 1814 37 100 100 11.514 Stort 7.288 \$2.500.417 \$2.500 \$2.500.41 \$2.50	COUNTY	ORGANI- ZATION	AREA	PO 1910	PULATION 1900	1890	FARM PROPERTY INCL. LIVE STOCK, 1900	FARM PRODUCTS, 1900	MANU- PACTURES, 1900	COUNTY SEAT	POPU- LATION, 1910
Adams. 1831 439 13-098 13-061 12-092 13-08 13-061 12-092 13-08 13-061 12-092 13-061 13	Adair									Greenfield	1,379
Calhoun. 1841 579 17,0007 18,500 18,105 18,115 18,1	Adams			10.998						Corning	1,702
Calhoun. 1841 579 17,0007 18,500 18,105 18,115 18,1				28 701						Centerville	0.025
Calhoun. 1841 579 17,0007 18,500 18,105 18,115 18,1	Audubon				13,626	12,412	14.570.045	2.302.701	386.073	Audubon	1.928
Calhoun. 1841 579 17,0007 18,500 18,105 18,115 18,1	Benton	1837	720	23,156	25.177		20.450.705			Vinton	3.336
Calhoun. 1841 579 17,0007 18,500 18,105 18,115 18,1		1843	576	44,805			22,040.815			Waterloo	20,093
Calhoun. 1841 579 17,0007 18,500 18,105 18,115 18,1	Bremer		432							Waverly	3.205
Calhoun. 1841 579 17,0007 18,500 18,105 18,115 18,1	Buchanan	1837	576		21.427	18.007	10.270,021	3.115,064	050,277	Independence .	3.517
Calhoun. 1841 579 17,0007 18,500 18,105 18,115 18,1	Buena Vista		576						460,623	Storm Lake	2.428
Cans. 1831 776 100.47 21.294 100.43 20.314.060 3.148.06 817.207 Allantic. 2.048 Cerro Gordo 1841 856 25.011 20.072 14.864 18.007.025 2.811.207 800.870 Mason City. 1842 10.072 14.864 18.007.025 2.811.207 800.870 Mason City. 1842 10.072 14.864 18.007.025 2.811.207 800.870 Mason City. 1842 10.072 14.864 18.007.025 2.811.207 800.870 Mason City. 1843 10.716 12.419 11.312 10.883.018 1.500.431 14.14.40 Spencer 3.008.026 10.00	Calhoun		570					2.77.5.047			
Chickasaw. 1831 435 15.375 17.047 15.050 16.795.916 2.250.231 51.803 New Hampton. 2.275 Clarke. 1840 432 17.0740 11.332 17.083 10.83 51.590.331 15.847 Decola. 2.416 Decola. 2.417 Decol			576			18,828		2.847.862	543.486	Carroll	3.546
Chickasaw. 1831 435 15.375 17.047 15.050 16.795.916 2.250.231 51.803 New Hampton. 2.275 Clarke. 1840 432 17.0740 11.332 17.083 10.83 51.590.331 15.847 Decola. 2.416 Decola. 2.417 Decol	Cass	1851	576				20,333,606		817.079	Atlantic	4.500
Chickasaw. 1831 435 15.375 17.047 15.050 16.795.916 2.250.231 51.803 New Hampton. 2.275 Clarke. 1840 432 17.0740 11.332 17.083 10.83 51.590.331 15.847 Decola. 2.416 Decola. 2.417 Decol			570	17,705						Mason Cuty	2,048
Chickasaw. 181 485 15.375 17.037 17.070 10.705.016 2.2850.213 012.808 New Hampton. 2.275 Clarke. 1846 432 10.750 12.447 11.335 1.050.318 15.90.318 15.90.318 15.47 Occoba. 2.415 Clarke. 1846 432 10.750 12.45 15.90.318 15.90.318 15.90.318 15.90.318 15.90.318 15.47 Occoba. 2.415 Clarken. 1847 745 12.55.70 17.750 20.733 21.008.228 31.008.416 1.514.540 Elkader. 1.1.918 17.750 17.750 20.731 21.008.228 31.008.416 1.514.540 Elkader. 1.1.918 17.750 17.750 20.731 21.008.228 31.008.416 1.514.540 Elkader. 1.1.918 17.750 17.750 20.731 21.008.228 31.008.416 1.514.540 Elkader. 1.1.918 17.750 12.008.229 20.011 21.058 31.058.41 21.054.405 3.514.007 37.7232 Denison. 23.537 Denison. 23.537 Denison. 23.537 Denison. 23.538 20.750 20.4750.50 31.875.445 31.00.008 Per Character 184 10.347 18.115 15.043 20.4750.50 31.875.445 31.00.008 Per Character 184 10.347 18.115 15.043 20.4750.50 31.875.445 31.00.008 Per Character 184 10.347 18.115 15.043 20.4750.50 31.875.445 31.050.229 21.23.05 Denison. 23.537 31.050.008 Per Character 184 10.347 18.115 15.043 20.4750.50 31.050.229 21.23.05 Denison. 23.538 20.750 20.250 20.250 20.23.05 Denison. 23.538 20.250 20.	Cherokee	1851	576	10.741		15,650	10,235,014		311,632	Cherokee	4.554
Clay (181 566 12.706 13.401 0.300 15.13.05 22 2180.818 340.4410 \$\frac{1}{2}\$ Spencer 3.005 20 (Clayton 181 745 25.70 27.750 26.713 21.005.225 2180.818 340.4410 \$\frac{1}{2}\$ Spencer 1.181 (181 72.005)	Chickasaw	1851	485	15.375	17.037	15,019	16,765,916	2.280,213	912.808	New Hampton	2,275
Dalla s	Clarke			10.736						Osceola	2.416
Dalla s	Clayton -				27.750					Elkader	1.181
Dalla s	Clinton	1837	668		43,832		28,600,135	3.782.038		Clinton	25.577
Davis	Crawford	1851						3.534.097		Denison	3.133
Delaware 1816 534 10.347 18.115 15.043 13.033.781 1.850.220 212.368 Leon 1.0918 Leon	Dallas	1,40		23.028	23,058		20.475.050	3.187.544	510.008	Adel	1,289
Des Names	Décatur									Leon.	1.001
Des Names	Delaware	1837	576	17.858	10.185		21.524 763	2 051.827	1.085.520	Manchester .	2,758
Dubaque	Des Moines		308		35.989	35.324	14 780.463			Burlington	24,324
Emmet 1851 308 0.810 0.030 4.774 0.402.024 1.203.151 243.370 Estherville 3.404 Fayette. 1837 7.20 27.910 20.845 23.141 23.837.278 325.854 1.720.214 West Union 1.052 Floyd 1831 404 17.110 17.754 18.424 10.733.072 2.550.415 666.717 Charles City 5.002 Floyd 1831 404 17.110 17.754 18.424 10.733.072 2.550.415 666.717 Charles City 5.002 Floyd 1831 5.70 10.023 17.822 15.707 18.038.834 2.671.872.88 581.80 581.80 1.000 Greene 1841 570 10.023 17.822 15.707 18.038.834 2.671.872.88 581.80 581.80 1.000 Greene 1841 570 10.023 17.822 15.707 18.038.834 2.671.872.88 581.80 581.80 1.000 Greene 1841 570 10.023 17.822 15.707 18.038.834 2.671.872.88 581.80 581.80 1.000 Greene 1851 570 10.242 10.514 15.101 18.020 2.055.770 450.810 Grundy Center 1.354 Guthrie 1851 570 10.242 10.514 15.101 18.020 2.055.770 450.810 Grundy Center 1.354 Hamilton 1851 570 10.242 10.514 15.101 18.020 2.055.770 450.810 Grundy Center 1.354 Hamilton 1851 560 12.731 13.732 7.023 18.0210.022 2.054.782 783.60 Grundy Center 1.353 Hamilton 1851 560 12.731 13.732 7.023 18.0210.022 2.054.782 783.60 Webster City 5.208 Hamilton 1851 400 12.020 11.514 11.112 12.070.00 2.006.710 41.4000 Mount Pleasant 1.433 Henry 1850 432 18.640 22.022 18.805 16.070.208 2.006.710 41.4000 Mount Pleasant 3.574 Hwward 1851 400 12.020 11.512 11.112 14.267.030 1.001.800 681.037 Cresco. 2.058 Humboldt 1851 432 11.206 12.337 10.795 15.174.318 2.204.78 401.232 11.112 18.000 12.337 10.795 15.174.318 2.204.78 401.232 11.112 18.000 12.138 32 11.206 12.337 10.795 15.174.318 2.204.78 401.232 11.112 18.000 12.138 32 11.000 10.541 18.270 2.0648.423 1.204.79 3.05.750 10.000 10.000 681.037 Cresco. 2.058 Humboldt 1851 432 11.206 12.337 10.795 15.174.318 2.204.78 401.232 11.112 18.000 11.780 11.7					7.005						
Frankin 1841 570 14,700 14 10,00 12,071 10,187,073 2,700,588 271,305 Sinker 10,100 14,										Estherville	3.404
Frankin 1841 570 14,700 14 10,00 12,071 10,187,073 2,700,588 271,305 Sinker 10,100 14,	Favetta	1837							1,720,214	West Union	1,052
Fremont. 1847 497 15.0-3 18.540 10.842 17.854 011 2.437.7855 381.850 Surfacy. 1.010 Greene. 1851 520 10.023 17.852 15.707 15.053.853 2.071.872 383.630 Jefferson 2.477 Grundy 1851 520 10.023 17.852 15.707 15.053.853 2.055.773 45.0810 Grundy Center 1.534 10.000 11.000 1	Floyd						10.733.072			Hampton	3.092
Grandy (1851 524 13,574 13,757 13,215 21,110,200 2,055,770 450,816 (grandy Center 1,554 (guthrie 1,1851 576 17,374 18,720 17,155 10,536 443 2,04,223 480,678 (guthrie Citter 1,537 Hamilton 1851 576 10,242 10,514 15,110 18,010,028 2,354,782 718,400 Webster City 5,203 18,736,71 21,111	Fremont.		487							Sidney	1.019
Guthrie. 1851 576 17.374 18.720 17.185 16.336.443 2.704.223 480.678 Guthrie Cittler. 1.337 14.multion 1885 576 10.242 10.514 18.10 18.01.028 2.834.782 718.400 Webster Cittly 5.208 Hancock. 1881 560 12.731 13.752 7.021 18.736.071 2.151.116 271.210 Garner. 1.028 Hancock. 1881 560 12.731 13.752 7.021 18.736.071 2.151.116 271.210 Garner. 1.028 Hancock. 1881 570 20.021 2.2704 10.00 10.021.077 2.018.380 1.008.021 Elilora. 1.028 Hancock. 1881 432 18.040 22.022 18.805 16.070.208 2.006.710 41.4000 Mount Pleasant 3.074 Henry 1881 400 12.020 11.822 18.805 16.070.208 2.006.710 41.4000 Mount Pleasant 3.074 Henry 1881 400 12.020 18.805 16.070.208 2.006.710 41.4000 Mount Pleasant 3.074 Henry 1881 432 11.206 12.327 10.795 18.174.318 2.219.478 40.1232 Illa Grove. 1.574 10.008 18.51 432 11.206 10.544 18.270 20.648.429 2.017.037 308.705 Marengo 1.784 10.008 18.51 432 11.206 10.544 18.270 20.648.429 2.017.037 308.705 Marengo 1.785 10.600.008 18.51 432 11.206 10.544 18.270 20.648.429 2.017.037 308.705 Marengo 1.785 10.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 432 18.505 11.600.008 18.51 43.505 18.500 18.5	Greene						18.638.884	2.671.872		Jefferson	2.477
Hamilton 1851 576 19 242 10.514 15.10 18.010.028 2.854.782 718.400 Webster City 5.208 Harcock 1851 506 12.731 13.752 7.021 18.730.671 2.151.116 271.210 Garner. 1.028 Hardah 1851 576 20.021 22.704 10.003 10.201.077 2.015.838 1.060.422 Eldora. 1.005 Hardah 1851 576 20.021 22.704 10.003 10.201.077 2.015.838 1.060.422 Eldora. 1.005 Hardah 1851 40.0 12.020 14.512 11.832 11.005 10.201.003 10.201.003 10.003 10.004 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.005 10.0	Grundy									Guther Conter	1.354
Hardm 1851 566 12,731 13,752 7,021 15,736,071 271,110 Garner. 1.028 Hardm 1851 567 20,021 22,704 10,03 10,201,077 2,015,389 1,000,422 Ellora 1.095 Harrison 1851 584 23,162 25,507 21,150 10,042,009 3,154,049 893,561 Logan. 1-453 Henry 1870 432 18,640 20,022 18,855 10,070,208 2,065,10 41,000 Mount Pleasant 3,674 Hwardd 1851 400 12,020 14,512 11,182 11,182 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 430 12,020 14,512 11,182 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 430 12,020 14,512 11,182 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 430 12,020 14,512 11,182 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 430 12,020 14,512 11,182 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 430 12,020 14,512 11,182 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 430 12,020 14,512 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 450 12,020 14,512 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 450 12,020 14,512 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 450 12,020 14,512 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 450 12,020 14,512 11,182 11,000 Mount Pleasant 3,674 Hwardd 1851 450 12,020 11,000 Mount Pleasant 3,674 Hwardd 1851 450 12,020 11,000 Mount Pleasant 3,674 Hwardd 1851 450 12,02	Hamilton		576		10.514		18,010,028			Webster City	5.208
Hamboldt 1851 400 12 12 182 11.182 11.182 11.207,039 1.001.800 081.037 Cresco. 2.055 11.184 11.1851 11.1851 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.206 11.207 1	Hancock.	1851	566	12.731	13.752	7.021	15.736,671	2.153.116	271,210	Garner	1.028
Hamboldt 1851 400 12 12 182 11.182 11.182 11.207,039 1.001.800 081.037 Cresco. 2.055 11.184 11.1851 11.1851 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.206 11.207 1	Hardin	1851			22.794			2,015,380		Logan	1.995
Hamboldt 1851 400 12 12 182 11.182 11.182 11.207,039 1.001.800 081.037 Cresco. 2.055 11.184 11.1851 11.1851 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.181.181 11.206 12.337 10.705 11.206 11.207 1	Henry .									Mount Pleasant .	3.874
1843 570 1840 1851 1857 1	H ward										
1843 570 1840 1851 1857 1	Humboldt .	1851							423.705	Lla Grove	301
Pefferson 1810 432 15 931 17 417 15 184 11,081,105 1.818,050 540,850 Fairfield 4.070 Ohnson 1837 614 25 914 2817 23,082 23,560,605 3.217,733 1.075,530 lowa City 10,001 Jones 1837 576 10,050 21 054 20.233 21,027,271 3.074,037 1.120,538 Anamosa 2.083 Keokuk 1843 576 21 160 24 077 23,852 22,000,315 2.083,449 58,560 Sigourney 2.032 Kossuth 1841 004 21,071 22 772 13,122 24,001,541 3.174,004 05,050 Sigourney 2.032 Kossuth 1846 004 21,071 22 772 13,122 24,001,541 3.174,004 05,040 58,050 Sigourney 2.032 Kossuth 1847 720 60,728 53,304 45,03 21,025,231 3.353,153,153 3.353,153 3.353,153 3.353,153 3.353,153 3.353,153,153 3.353,153 3.353,153,153 3.353,153,153 3.353,153,153,153 3.353,153,153 3.353,153,153 3.353,153,153 3.353,153,153 3.353,153,153,153,153,153,153,153,153,153,	lowa	1843					20,648.403		368,795	Marengo	1.786
Pefferson 1810 432 15 931 17 417 15 184 11,081,105 1.818,050 540,850 Fairfield 4.070 Ohnson 1837 614 25 914 2817 23,082 23,560,605 3.217,733 1.075,530 lowa City 10,001 Jones 1837 576 10,050 21 054 20.233 21,027,271 3.074,037 1.120,538 Anamosa 2.083 Keokuk 1843 576 21 160 24 077 23,852 22,000,315 2.083,449 58,560 Sigourney 2.032 Kossuth 1841 004 21,071 22 772 13,122 24,001,541 3.174,004 05,050 Sigourney 2.032 Kossuth 1846 004 21,071 22 772 13,122 24,001,541 3.174,004 05,040 58,050 Sigourney 2.032 Kossuth 1847 720 60,728 53,304 45,03 21,025,231 3.353,153,153 3.353,153 3.353,153 3.353,153 3.353,153 3.353,153,153 3.353,153 3.353,153,153 3.353,153,153 3.353,153,153,153 3.353,153,153 3.353,153,153 3.353,153,153 3.353,153,153 3.353,153,153,153,153,153,153,153,153,153,	Jackson	1537					18,757,56;			Maquoketa	3.570
Definition 1847 614 25 014 24 817 23.582 23.500.065 3.217.733 1.075.300 1.093.0117 1.09	Jasper	1540		27,034	20 970	24.943	27,505,370	4.133,001	000.050	Fairfield	1.070
Rossuth	Tohnson	1837				23,082	23,560,668	3.217.733	1,075,800	Iowa City	10,091
Rossuth	Jones		576		21 954	20.233			1,120,538	Anamosa	2.983
Lee 1836 490 36 702 30710 37715 14421.552 1.857,529 5.007.571 Fort Matison 8.000 1mm. 1837 720 00.720 53.02 451.03 251.85851 3.858.5154 13.012.433 Marinon 4.420 Luusa. 1836 306 12.855 13.516 11.873 12.72.294 1.871.750 20.3300 Wapello. 11.230 Luusa. 1840 432 13.462 10.126 14.865 11.076 13.33 12.771.580 377.857 Charten 14.20 Luusa. 1840 43.76 15.012 11.710 15.077 17.12.140 12.05.540 377.857 Charten 14.20 Luusa. 1840 43.76 15.012 11.710 15.077 17.12.140 12.05.540 40.000 11.02.270 Charten 14.20 Luusa. 1843 576 20.860 34.273 28.865 20.12.15 20.000 07 11.08.277 Oskaloosa. 0.400 Marinon. 1843 576 20.860 34.273 28.865 20.12.15 20.000 07 11.08.277 Oskaloosa. 0.400 Marinon. 1845 576 20.260 30.200 07 24.150 20.000 11.02.270 Oskaloosa. 0.400 Marinon. 1845 576 30.270 -0.001 25.842 22.20781 33.8602 5.080.520 Marinollus. 1851 415 15.811 10.764 14.548 16.650.650 2.450.667 30.50.58 (Benwood. 4.552 Monona. 1851 40.01 13.435 14.01 13.00 16.1	Keokuk								513,005	Alama	2.00%
Luiss. 1840 309 12855 1316 11373 1272 294 3.333.154 2 3.303.154 Marchine. 1840 309 12855 1316 11373 1272 294 3.333.154 2 37.330 Warden. 1840 310 1285 1340 110 10 110 110 110 110 110 110 110 11	Lee								5.007.571		
Lucia. 1840 432 13 402 10 120 13 803 11 670 339 1,571,850 377,851 Charlton 3-0.04 Lvon. 1851 555 14 024 13,105 8,080 15 78 79 42 2,225 8 43 44,012 Rock Rapids. 2-0.05 Madison. 1846 576 15 021 17,710 15,077 17,423,401 3,090 000 11,15,547 Uniterset. 2-0.15 Madison. 1846 576 20,860 34,273 28 60 21 013,275 28 3,090 000 11,15,547 Uniterset. 2-0.15 Madison. 1845 576 20,860 34,273 28 60 21 013,275 20 3,090 000 11,15,547 Uniterset. 2-0.15 Madison. 1845 576 20,860 34,273 28 60 21 013,275 20 000 000 000 11,15,547 Uniterset. 2-0.15 Madison. 1845 576 20,860 24,163 25,842 21,270 81 3,188 002 5,080,055 Marshalltown 13,374 Milkin. 1851 15 15,811 10,704 14,548 16,05,069 24,500,607 20,563 Glenwood. 4-52 Matchell. 1851 470 13 435 14 016 13,200 16 13,0844 2,326 006 601,010 Osare. 2-445 Monora. 1851 684 10,033 17,085 14,515 17,410,704 2,715,549 18,080 Onawa. 2-0.26 Montgomery. 1851 432 10,004 17,083 15,881 17,007,04 2,715,549 18,080 Onawa. 2-0.26 Montgomery. 1851 432 10,004 17,803 15,881 17,20,71 2,321 88, 60,38,328 Muscatine. 1836 420 20,505 28,242 24,504 16,637 430 2,446,388 6,038,328 Muscatine 10,478 000 000 000 000 000 000 000 000 000 0	Linn	1837	720	60,720	55 392	45.303	28 128,851	3.828.154	13,032,423	Marion	4.400
Madison. 1846 576 15 021 17,710 15,077 17,423,402 2,685,430 253,034 Vinterset. 2,513 Mahaska. 1843 576 20,805 34,273 28,805 20,112,255 3,000,007 1,105,227 Okadoosa. 9,400 Marion. 1845 576 22,005 24,159 23,055 17,731,510 2,695,330 400,531 Knoxville. 3,103 Marianall. 1840 576 30,270 20,001 25,442 22,270,71 3,135,02 5,686,25 Marianhilwu. 13,374 Mills. 1851 417 15,811 16,762 14,451 16,502,650 24,506 30,505 05,685,25 Marianhilwu. 13,374 Michelen. 1851 417 15,431 16,762 14,452 16,502,650 24,506 30,505 05,685 24,506 30,505 05,685 30,505 05,685 30,605 30,605 05,685 30,685 30,605 30,605 30,605 30,605 <td>Louisa</td> <td>. 1836</td> <td></td> <td>12,855</td> <td>13 510</td> <td>11 873</td> <td>12 727 294</td> <td></td> <td>205,300</td> <td>Chagiton</td> <td>1.320</td>	Louisa	. 1836		12,855	13 510	11 873	12 727 294		205,300	Chagiton	1.320
Madison. 1846 576 15 021 17,710 15,077 17,423,402 2,685,430 253,034 Vinterset. 2,513 Mahaska. 1843 576 20,805 34,273 28,805 20,112,255 3,000,007 1,105,227 Okadoosa. 9,400 Marion. 1845 576 22,005 24,159 23,055 17,731,510 2,695,330 400,531 Knoxville. 3,103 Marianall. 1840 576 30,270 20,001 25,442 22,270,71 3,135,02 5,686,25 Marianhilwu. 13,374 Mills. 1851 417 15,811 16,762 14,451 16,502,650 24,506 30,505 05,685,25 Marianhilwu. 13,374 Michelen. 1851 417 15,431 16,762 14,452 16,502,650 24,506 30,505 05,685 24,506 30,505 05,685 30,505 05,685 30,605 30,605 05,685 30,685 30,605 30,605 30,605 30,605 <td>Lyon</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>446.012</td> <td>Rock Rapids</td> <td>2.005</td>	Lyon								446.012	Rock Rapids	2.005
Marion. 1845 576 219-85 240-85 22-22-20-18 338 092 580-585 240-85	Madrson		576	15 021	17.710	15.077	17 423 462	2,685,436	258,364	Winterset	2.515
Montgomery	Mahaska.	. 1843	576		34.273		21 913 253			Uskaloosa	9 400
Montgomery	Marshall	1846	576						5.086.205	Marshalltown	13.374
Montgomery	Mills	1851					16 650,689	2.450.667	305.628	Glenwood	4 7 2 2
Montgomery	Mitchell	. 1851			14 916	13,200		2,326 906	661,201	Osage	2.445
Montgomery	Monona	1817			17,050					Albia	4.000
Vectoral 1881 399 0-950 8-788 5.574 10/91 Nos 1-20/0094 121/024 Chickey 1-30 Page	Monteconsum				17.803		17.292 073		658.017	Red Oak	4.830
Vectoral 1881 399 0-950 8-788 5.574 10/91 Nos 1-20/0094 121/024 Chickey 1-30 Page	Muscatine	. 1836	420							Muscatine	10.178
Pocahonta. 1851 576 14 808 15,330 0 553 10 767 005 2,375,850 300,711 Pocahontas. 957 Polk. 1846 576 110,438 82,624 65,410 25,806,540 3,556,235 10,856,866 Des Moines 86,308	Osceola	1851								Sibley	7.330
Pocahonta. 1851 576 14 808 15,330 0 553 10 767 005 2,375,850 300,711 Pocahontas. 957 Polk. 1846 576 110,438 82,624 65,410 25,806,540 3,556,235 10,856,866 Des Moines 86,308	Page	1847	528	24,002	24.187	21.341	21.645.571	3.184.944	812.079	Clarında	3,832
Pocahonta. 1851 576 14 808 15,330 0 553 10 767 005 2,375,850 300,711 Pocahontas. 957 Polk. 1846 576 110,438 82,624 65,410 25,806,540 3,556,235 10,856,866 Des Moines 86,308	Palo Alto	1851	566		14.354	0.318	13.160.105	1.054 000			
Pollk	Pocahontas	1851		23.120		10,508				Pocahontas.	4.157
Pottawattamie	Polk	1846	576	110.438	82,624	65 410	25,800,546	3.550.235	10,850,086	Des Moines	86,368
Control Cont		1847	920	55.832			35.055 925	5.330,116	3,020,528		
Sac. 1881 576 16,585 17,636 14,522 20,135,092 20,103,008 500,424 SacCity 2,221 Seott 1837 432 60,000 51,655 43,104 22,221,155 2,001,750 11,720,441 Davemport 43,128 Shelby 1841 570 16,552 17,012 25,218 23,210,27 124,530 280,054 Harlan 2,570 Spoux 1851 7,38 25,248 23,137 18,350 25,086,258 3,44,171 778,244 Orange City 1,374	Ringgold	. 1843 . 1837								Mount Avr	1.046
Seott. 1837 432 60,000 51,558 43,104 22,201,755 2,001,750 11,720,441 Davemport. 43,728 Shelby. 1851 570 16,552 17,012 20,721,027 3,245,506 280,054 Harlan 2,570 Sioux. 1851 7,38 25,238 23,317 18,370 25,080,258 3,444,171 778,244 Orange City. 1,374	Sac	1881	576	16.555	17.630	14.522	20.305.005	2.030.208	500,404	Sac City	2.201
Sioux. 1851 738 25.248 23.347 18.370 25.086.258 31.54.171 778.244 Orange City. 1.374	Shelby	1837	432					2,001.750	11.720,441	Davenport Harlan	43.028
	Sioux	1851		25,248	23.337			3.454.171		Orange City	1.374

Statistics of the State of Iowa by Counties, Federal Census 1900 and 1910-Continued.

	COUNTY		ORGANI- ZATION	AREA	1010	OPULATION 1900	1890	FARM PROPERTY INCL, LIVE STOCK, 1900	FARM PRODUCTS, 1900	MANU- PACTURES, 1900	COUNTY SEAT	POPU- LATION. 1010
	Story	1.4	1846	576	24.083	23.150	18,127	\$21,025,024	\$3,131,013	\$666,552	Nevada	2.138
	Γama		1543	7.20	22,130	24.585	21,651	26.377.051	3,845,577	002,929	Toledo	1,626
	Taylor		1847	540	10.312	18,784	10.384	17,144,001	2,528,801	370,153	Bedford	1.883
1	Union		1851	432	10,016	10.028	16 900		1.007.400	879,288	Creston	6,924
	Van Buren		1830	502	15,020	17.354	10.253	12,800,451	1,850,524	717,314	Keosauqua	1,000
	Wapello		1843	432	37.743	35.420	30.426	13,703,252	1,817,884	0.281,773	Ottumwa	22,012
	Warren		1840	570	18,194	20,376	18,260	17:073:535	2,075,808	384.588	Indianola	3.283
,	Washington		1848	570	10.025	20.718	18.468	21,501,130	2.005.441	660,501	Washington	4.380
,	Wayne		1540	528	10.184	17.401	15,670	14.012.770	1.859,502	310.707	Corvdon	1.669
,	Webster		1551	7.20	34.029	31.757	21,582	21,094,388	2.700.570	1,813,400	Fort Dodge	15.543
1	Winnebago		1851	308	11.914	12,725	7.325	10,702,010	1.459.000	589,652	Forest City	1,601
,	Winneshiek		1847	6171	21,720	23.731	22,528	21,587,020	3.225.513	1.177,067	Decorah	3.502
1	Woodbury		1851	80.4	67,616	54,610	55,612	23.730.287	3.902,855	15.801,180	Sioux City	47.823
,	Worth		1351	(0.5	0.950	10,887	0.247	12,381,001	1.000.750	153,300	Northwood .	1,204
	Wright		1851	57/1	17.951	18,227	12,057	18,405,608	2.584.021	621,568	Clarion	2,065



State or Country of Birth of the Population of the State of Iowa, State Census 1905.

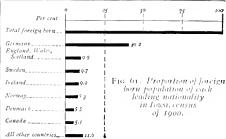
STATE	NUMBER	COUNTRY	NUMBER
Iowa	1,027,754	Germany	60,831
Illinois	130,044	Sweden	15.570
Ohio	73,480	Norway	12.022
Pennsylvania	45.379	Ireland	11,045
New York	44,212	England	10.154
Indiana	41.402	Denmark	10.007
Wisconsin	40.771	Canada	7.410
Missouri	34.784	Holland	5.418
Nebraska	19,082	Bohemia	4.075
Minnesota	13,600	Scotland	3.227
Kansas	12,575	Austria	2,300
Michigan	0,408	Switzerland	2,201
Virginia	8,170	Wales	1.402
South Dakota	7.830	Russia	2,230
Kentucky	7,022	Italy	1,215
Vermont	5.447	France	1,036
Massachusetts	4,683	Hungary	330
Tennessee	4.171	China	4.3
West Virginia	3.745	Other European Countri	es 577
Maryland	3,480	Other Asiatic Countries	230
All Other States	30,223	Other Countries	1,633

Population of Iowa at Each Federal Census.

YEAR	TIVE RANK	PER CENT OF INCREASE	INCREASE IN TEN YEARS	TOTAL POPULATION	DENSITY PER SQ. MILE
1840	20			43.112	0.2
1850	27	345-5	149,102	192,214	3-5
1860	20	251.I	482,000	074.913	12.2
1870	1.1	76.0	519,107	1,104,020	21.5
1880	10	36.1	430,505	1,024,015	20.3
1800	10	17.7	287,281	1,911,896	34.5
1900	10	10.7	319,572	2,231,853	40.2
1010	1.5	0.3*	7.082*	2.224.771	40.0



Fig. 60. Proportion of native to foreign born population, state of Iowa, census of 1905.



Population of Leading Cities and Towns at each Federal Census from 1850 to 1910.

CITY	1910	1000	1800	1880	1870	1 S00	1850
Des Moines	86,368	02.130	50.00	22,40N	12,035	3.065	502
Sioux City	47,828	33,111	37.800	7,300	3,401		
Davenport	13,028	35,254	20,872	21,831	20,038	11,207	1.848
Dubuque	18,404	30,297	30,311	22,254	18,434	13,000	3,108
Cedar Rapids	32.811	25,056	18.020	10,104	5,040		
Council Bluffs	20,202	25,802	21,474	18,004	10,020	2,011	
Waterloo	26,693	12,580	0,074	5,030	4.337		
Clinton	25,577	22,608	13,619	0,052	0,120		
Burlington	24,324	23,201	22,505	10,450	14.030	0.706	
Ottumwa	22,012	18,197	14,001	9,004	5,214	1,632	
Muscatine	10,178	14,073	11,454	8,295	0.718	5.324	
Fort Dodge	15.543	12,162	4.871	3,580	3,005		
Keokuk	14,008	14,641	14,101	12,117	12,700		2,473
Marshalltown	13,374	11.544	8,014	0,240	3,218		
Mason City	11,230	0.740	4,007	2,510	1,183		
Boone	10.347	8,880	0,520	3,330			
lowa City	10,001	7,087	7,010	7,123	5.014		1,250
Oskaloosa	0.400	9,212	6,558	4.508			
Fort Madison	8,900	0.278	7.901	4.670		2,886	1,500
Centerville	0,930	5,250	3,668	2,475	1.037		
Creston	6,024	7.752	7.200	5,081			
Oelwein	6,028	5,142	830	397			
Charles City	5,802	4.227	2,852	2,421	2,166		
Webster City	5,208	4,013	2,820	1,845			
Grinnell	5.0 (0	3,860	3.332	2,415	1,482	302	
Cedar Falls	5,012	5.310	3,450	3,020			
Shenandoah	4.070	3.573	2,440	1,387			
Fairfield	4.079	4,6.50	3,301	3,086	2,220		909
Albia	4,000		2,350	2,435	1,021	620	
Cherokee	4.884		3,441	1,523	438		
Red Oak	4.830		3,321	3.755			
Реггу	4,030	3,056	2,880	052			
Newton	4.010	3,682	2,504	2,007			
Atlantic	4,500	5,040	4,351	3,662	1,822		
Marion	4,400	4,102	3,004	1,030		1,307	
Washington	4,380	4.255	1,235	1.153			
Ames	4,223	2,422		1,153			
Le Mars	4.157	3,049	1,800	1,793	1.200		
Mount Pleasant	3,574	4,100	3,007	4,410			
Clarinda	3,832	3,270	3,202	2,011	1.022	427	
Chariton	3,704	3.080	3,122	2,077	1.728		
Decorah	3,502	3,240	2,801	2.051		1741	
Macuoketa	3.570	3,777	3.077	2.107	1,750	1,001	168
Carroll	3,540	2.882	2,448	1.355			
Independence		3,050		3.128	2,945		
independence	1 2:21/	3,030	0,103	311.	-1943		

Population of Leading Cities and Towns-Continued.

		-				_	
CITY	1910	1002	1800	1000	1870	1860	1 450
Estherville	3,404	3,2,37	1,475	138			
Eaglegrove	3,387	3,557	1,581				
Vinton	3,330	3,499	2,865	2,000	2,400		
Indianola	3,283	3,201	2,254	2,140	1,425	836	
Waverly	3,205	3,177	2,340	2,345	2,291		
Knoxville	3,100	3.131	2,032	2,577		1,124	
Missouri Valley	3,187	4,010	2,707	1,154			
Denison	3,133	2,771	1.752	1,441	326		
Belle Plaine	3.121	3,283	2,023	1,050	1,485		
Pella.,	3,021	2,023	2,478	2,430	1,000	1,644	
Spencer	3,005	3,005	1.813	824			
Anamosa	2,083	2,801	2,078	2,053		889	
Sheldon	2,041	2,282	1,478	7.30			
Algona	2,008	2.011	2,008	1,350			
Winterset	2,818	3,030	2,281	2,583	1,485	915	
Iowa Falls	2,797	2,840	1,700	955			
Manchester	2,758	2,887	2,344	2,275	1,492		
Mystic	2,003	1.758	875				
Cresco	2,058	2,800	2,015	1,875	012		
Hampton	2,017	2.727	2,007	1,508	555		
Valley Junction	2,573	1,700					
Harlan	2,570	2,422	1,705	1.304	128		
Colfax	2,524	2,053	057	0.20			
Jefferson	2.477	2,001	1,875	T-444	770		
Osage	2,445	2,734	1,013	2,012	1,400		
Storm Lake	2,428	2,100	1,682	1,034			
Osceola	2,410	2,505	2,120	1,700	1,205		
Emmetsburg	2,325	2,361	1,5%4	870	4.4		
Tama	2,200	2,649	1,741	1,280	1,101		
Seymour	2,200	1,703	1,058	501			
New Hampton	2,275	2,330	1,314	1,105			
Sac City	2,201	2,070	1,240	50.5	1.50		
Nevada	2,138	2,472	1,002	1,541	0.52	350	
Hawarden	2,107	1,510	744				
Clarion	2,005	1,475	744		37		
Tipton	2,048	2.513	1,500	1,200		1,100	
Lake City	2,043	2,703	1,160				
Monticello	2,043	2,104	1.038	1,877			
Villisca	2,030	2,211	1,744	1,200			
Sigourney	2,032	1.052	1,523	1,735	902		102
Bloomfield	2,028	2,105	1,013	1,531			
Onawa	2,02(1	1,033	1,358	882			
Waukon	2,025	2,153	1,610	1,350			

Per cont	10	20	30	10	50
	1	1			
Agriculture					174
T-ansportation and trade		14.3			
Pomestic and personal service	1		ig. 63. I		
1	1		persons e		
Manufactures		14.3	each clas		
Professional service	59			in lowa, us of	
Moners	1.4		19	wo.	

Leading Manufactures of the State of Iowa, State Census 1905.

1903.								
	NUM-	NUMBER	AMOUNT	VALUE				
INDUSTRY	BER OF	WAGE	OF WAGES	OF				
	PLANTS	EARNERS	PAID	PRODUCTS				
Slaughtering and meat pack-								
ing (wholesale) ,	1.3	3.055	\$1,302,101	\$20,714.73				
Butter	008	1.122	668,280					
Flour and grist mill product-	270	770	300,108	12,009,40				
Printing and publishing	1,096	4.200	1,978,100					
Book and job	135	848	410,814	1,632,15				
Newspapers, periodicals	0.01	3,358	1.507,205					
Car and shop construction by		0.6.5		1				
steam railroad companies	.10	0.372	3.859.803	7,618,72				
Food preparations	21	977	337,242	0.034.73				
Planing-mill products	7.0	2,582	1,240,210					
Lumber and timber product-	40	1.035	040.865	5,610,77				
Foundry and machine-shop				3,,				
products	182	2,612	1.368,413	5,103,67				
Bread and bakery products	40.5	1,000	500,419					
Brick and tile	202	2,032	4,241,596					
Cigars and cigarets	440	2,040	838,000					
Carriages and wagons	07	1,103	528,016					
Canning and preserving		11115	34-1-1-1	21974104				
fruits and vegetables .	40	1,103	202,512	2,779,80				
Malt liquors	10	427	200,580	2,386,26				
Clothing, men's	18	1.170	335,494	1,010.55				
Gas, illuminating and heat-		.,.,	3331474	1,919.33				
ing	6.1	40.5	253,052	1,835,20				
Patent medicines and com-		4.77.5	-33193-	1,033,20				
pounds	5.5	2 3 1	80,228	1,803.07				
Furniture	3.5	858	370,217	1,077,04				
Tinware	33	410	158,180					
Coffee, roasting and grinding	- 3	0.2	42,155	1.458,05				
Confectionery	2.4	658	180,042	1.435.40				
D-44	- 4		100194	1 4/2/4-				

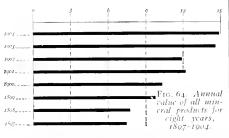
The Principal Manufacturing Cities of Iowa and Facts about their Industrial Plants, Federal Census 1900, State Census 1905.

CITY	YEAR	NUMBER OF ESTAB- LISHMENTS	PER CENT OF IN- CREASE	NUMBER OF WAGE FARNERS	PER CENT OF IN- CREASE	AMOUNT OF WAGES PAID	PER CENT OF IN- CREASE	VALUE OF PRODUCTS	PER CENT OF IN- CREASE
The State	1 1005	4.788 4.850	*1.5	40,482 44.100	12.2	\$22,007.773	28.3	\$100,004,101	20.8
Burlington	1 1005	125	*12.8	2,014	41.9	784,661	So 7	5,779,337 4,450,380	20.9
Cedar Rapids	1 1015	134	50.0	3,260	17 1	080,070	48 %	10,270,700	40.2
Clinton	1 1005 1 1000	8 ; 8 i	2.5	2,173	*11-0	0.58,114	0	4.000,355	*20.0
Council Bluffs	1 1005	71	*4	755	20.0	520,004 380,540	7 1	1,024,100	1 1 7
Davenport	1 1005	17.4	0.7	3.8 0	12.8	1,457,162	20 5	0.872, 127	.5 7
Des Moines	1 1015	201	3 4 5	4.155	10.4	2,083,200	41 1	15,084,958 8,466,495	78 2
Dubuque	1.1015	150	* - 1	4 7.1	*8 2	1,013,455	14.2	0,270,414	* 3 8
Sioux City	1 1015	1:0	*1 5	2, 10	*/. 7	1,203,-70	9	10,760,751	3 8



The Value of Iowa Mineral Products, 1897 to 1904.

YEAR	COAL	CLAY	STONE	GVPSUM	AND ZINC	ORE
1904	110.430,400	\$3,507,570	\$542.170.	\$400.432	\$ 2,610	
190	. 13,430,130	3.033,554	597,003	523.1 5	3.013	
1002	8,058,770	2,543,501	073,301	3 47 - 7 4 5	11.178	
1901 .	8,051,800	2 774,200	704.275	5/12 5 "	16,500	\$4.570
1000.	6.077,466	2,305,455	004.550	303.731	22,104	2.130
1800	0.137,570	2,203.728	Son,024	600,5 .	57,542	3,405
1808	5,123,157	2.057 022	503.550		43.754	
1807	5.005,101	1,501 500	557 144	195,000	5,010	250



Value of Live Stock Owned in Iowa, Rank of State, and Leading County, Federal Census 1900.

LIVE STOCK	RANK OF STATE	VALUE OF LIVE STOCK	LEADING COUNTY
All domestic animals Cattle.	1	\$271.844.034	Pottawattamie Pottawattamie
Horses Hogs	1 1	77.720.577 43.764.170	Pottawattamie Pottawattamie
Sheep	17	3.950.142	Van Buren Fremont
Bees	1.5 S 6	443.923 146.708	Pottawattamie Madison
Chickens	3	9,401,819	Pottawattamie Kossuth Hardin Lyon

The Annual Coal Production of Iowa, by Counties (in Short Tons), 1898-1904.

CHUNTY	1808	1800	1000	1001	1002	1004	1004
Adams .					19.751	22,570	12,050
Appandose	bo8,165	636,421	080,004	721.007	000,337	893,021	872,720
Boone	331.544	200,525	200,542	254.054	254.324	201,321	285,157
Dallas	7.007	10.804	10.737	10,087	18.845	15,407	13,086
Davis					3-953	3,160	5.4
Greene .	12.020	17.508	17.044	18,810	11.573	14.971	28,21,
asper	143,035	191,928	00.045	184.070	233.440	270,804	257.347
efferson					10,010	0.844	9.81
Keokuk	251.145	314.000	258.033	308,193	100,103	62.875	44.51
ucas	h,hoo	32.410	227.021	221.058	246,400	205,554	189.80
Jahaska.	1.202.787	1,273,473	1.142.017	020.110	723,507	698,166	063.04
Iarion .	127,203	231,008	180.440	145.081	315.425	324.850	327,51
Ionroe	554/575	080,004	755.286	1.038,332	1,400,005	1,705,054	2,001.87
² age					10,070	16,343	18.30
Polk	635,000	740.708	827.452	1,025,014	1,023,800	1.032.104	1,130,66
cott					10,358	12,053	10,72
faylor .	0.555	10,005	17.150	23,400	14.207	16.933	16,27
an Buren.	6.000	0.385	12,108	12,572	14.816	13.501	8,00
Vapello	240.024	325,020	270.300	312,174	340,762	382.308	302,35
Varren	7.120	34,815	24.724	14.061	20.127	12,700	11.40
Vayne	51.550	52,818	65,140	50.578	05.374	105,170	08,87
Vebster .	137.548	124.841	123,000	146,020	140.015	138,200	134.53
Other counties and small mines	157,366	171,208	205.335	187.780	4:344	21,867	9.14

Counties Shipping More Than 1,000,000 Pounds (Net) of Butter in the Years Ending September 30,

1904 an	d 1905		
COUNTY		1904	19.5
Woodbury		5.375.214	5.073.20
Polk		3.271.425	5.827.81
Clayton		2,003,430	3.149.76
Brenier		2,100,007	2.795.23
Dubuque		2.270.778	2,500,85
Delaware		2.021.238	2.474.10
200		2,503,330	2,494,329
Page		005.417	2.300.88
age			
		2,022,812	2,305,08
ones		2.850.641	2,286,31
Thickasaw . Butler		1.022 304	2,140.07
	i i	1.570.732	1.054.72
ossuth .	1	1.550.077	1.020.40
arroll		1,272,854	1,925.93
Vinneshick .		1,622,360	1,010,20
Juchanan .		1.510.470	1,523,52
Intchell .		1.180.033	1.784.20
inn		1,355,299	1,005,50
lardm		1.381.400	1,631,31
ioux		1.003.287	1.500.57
ackson .		1.300.730	1,543,51
lamilton .		1.158.000	1.470.04
erro Gordo .		820,550	1.30 (.15
Black Hawk .		1.080.418	1.338.07
Adair		047.744	1.431.45
Audubon		800 438	1.327.35
Juion		488.402	1.301.75
Allanuckee		1,227 280	1,203.50
Palo Alto		1,133,052	1.034.40
lalhoun		1,015 375	1,075,78
Ioward		1,007.051	1,040.05
Frendy		610.833	1,008,80
Buena Vista		843,712	1,000,20
Prawford		505.137	1.004.436

Value of Agricultural Products of Iowa, Relative Rank of State in Production, and Leading County, Federal Census 1900.

CROPS	RANK OF STATE	VALUE OF CROPS	LEADING
All crops	2	\$102,280,008	
All cereals	2	147.010.076	
All vegetables.	1.1	7,508,850	
All fruits	1.1	2.804.574	
Corn	2	07,207,707	Pottawattamie
Oats	2	33,254,087	Cerro Gordo
Hay and forage.	5	30.042,246	Kossuth
Dairy products.	4	27,510,870	Delaware
Wheat	1.4	11,457,808	Sioux
Eggs	2	10.010.707	Pottawattamie
Barlev	-4	5.342.303	Lvon
Potatoes :	7	3.870.746	Jasper
Orchard products	1.2	1.840.707	Pottawattamie
Flaxseed	4	1,380,102	Mitchell
Hover and other grass sec		1,215,764	Wayne
Small fruits	1.2	878.447	Polk
Nursery products.	2	010,002	Page
Rve	4	480,817	Clayton
Honey and wax	7	305,183	Pottawattamio
Inions	1 1	177,088	Scott
Frapes and products	. 1.2	166,365	Pottawattamie
Ŷ ſ	2	3 4	5 6
200	-		
Soc !	i	1	
90.			
F	ic be	Growth of the	coal industry
		m by production	

year from 1800 to 1900 in millions of tons.

The State and Territorial Governors of Iowa from 1838 to 1906.

R bert Lucas	TERM
R bert Lucas	1535-1541
John Chambers	1541-1545
James Clarke	1845-1840
Ansel Briggs	1840-1850
Stephen Hempstead	1850-1854
James W. Grimes	1854-1858
Ralph P. Lowe	1555-1500
Samuel J. Kirkwood	1500-1504
William M. Stone	1804-1808
Samuel Merrill Cyrus C. Carpenter	1805-1873
Cyrus C. Carpenter	1872-1870
Samuel I. Kirkwood	1870-1877
Joshua G. Newbold (Lieutenant-	
Governor)	1877-1878
John H. Gear	1578-1552
Buren R. Sherman	1882-1880
Wilham Larrabee	1886-1800
Horace Botes	1500-1804
Frank D. Jackson	1504-1500
Francis M. Drake	1500-1505
Leslie M. Shaw	1505-1002
Albert B. Cummuns	1005-

Events in the Early Annals of Iowa. 1073—Region discovered b. Marquette and

Joliet, claimed by France.

1082—Hennepin traversed Mississippi River

along entire eastern boundary.
1712—Le Sueur traversed Mississippi River along entire eastern

boundary.

1762-Region ceded to Spain by France.

1700—Visited by Jonathan Carver of Connecticut, first American to visit region.

1775-Beginning of Spanish rule.

1788-Arrival of Juhen Dubuque, first white settler.

1705—Land grant issued by Spanish Governor of Louisiana to Basil Giard, second settlement.

1706—Land grant issued by Governor to Julien Dubuque, "Mines of Spain."

1700—Land grant issued by Governor to Louis Honoré Tesson; third settlement.

1801-Region receded to France by Spain.

1803—Louisiana Territory purchased by United States from France. 1804—Lewis and Clark expedition; Missouri River explored; first

cessi in of Indian lands to U. S. Government.

1825—Pike's expedition, explored Mississippi to its source,

1808—Fort Madison ere ted by Lieut, Alpha Kingsley, named for presplent; Johnson's trading post set up at site of Burlington.

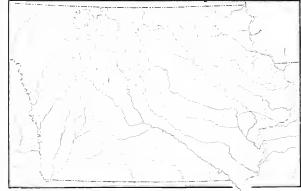


Fig. 66. A map showing the earliest explorations and settlements in Iowa.

1815—Treaties of Peace concluded with Sac, Fox, and Sioux Indians, 1816—Fort Armstrong erected by General Smith.

1810-First steamboat ascended river to Council Bluffs.

1825-Cabin built on site of Keokuk by Dr. Samuel C. Muir,

r824—Trading post established by Peter Sarpy on Missouri; Half-breed tract set aside by treaty.

1825—Boundary lines established between possessions of Sac, Fox, and Sioux Indians.

1830—First school established (Berryman Jennings, teacher); first white child born in Iowa (Eleanor Galland).

1832—Black Hawk war.

1833-"Black Hawk Purchase," ceded by treaty at Davenport.

1834—Church built at Dabuque (Methodist) first in territory; Fort Des Moines (first) erected; Half-breed Reservation sold to United States.

1835-Captain Nathan Boone's fight with Indians.

1830—Wisconsin Territorial Legislature held at Burlington; first newspaper in state, "Debn ue Vy-itor," published at Dubuque, by John King; first published description of the "Iowa District." 1837—Charter granted first bank—the "Muners' Bank of Dubuque."

1838—I-wans adopt popular name "Hawk-

eyes" at suggestion of James E. Edwards, editor "Fort Madison Patriot". Blockhouse erected at Council Bluffs; Territory of Wisconsin divided and territorial government of Lova established.

1840-Fort Atkinson erected.

1841—Territorial government established at

1843-Fort Des Moines (second) erected.

1844-First constitutional convention held.

1846—Towa admitted as a state; first constitution adopted, and first Governor inaugurated; Mormon settlements.

1847 — First state census taken, population 110,454; provision made for State University at Iova City.

1840-Great exodus to California.

1855-Fort Dodge erected.

1855-Lot of Mormons emigrated to Utah.

1850-First railroad completed; U. S. land grant for building railroad across the state.

1857—Capital removed to Des Moines; present constitution ad qued; Indian massacre at Okoloji and Spirit lakes.

1800-05 — Leva furnished 80,000 volunteers in the Civil War.

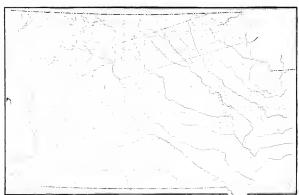


Fig. 67. A map showing accessions of territory from Indians.

Derivation of Some Iowa Geographical Names.

Based lareely in Bulletin No. 258, Series F. Geography 45, United States Geological Survey.

Audubon—County. Named for the celebrated ornithologist, John James Audulon.

Black Hawk—County. Named for the famous Indian Warrior.

Bremer, County. Named for Frederika Bremer, the Swedish authoress, who spent some time in that region in 1855.

Buena Vista—County. Named in honor of General Taylor's great victory in the Mexican war; also, probably, because the words mean "beautiful view."

Burlington-Named from the city in Verment.

Cedar Rapids—Named from rapids on Cedar River.

Cerro Gordo—County. Named from Mexican battlefield, Words mean "large (around) bill"

Cherokee-Named for an Indian tribe. Meaning uncertain.

Clinton—Numed for De Witt Clinton, the great "Canal Governor" of New York.

Council Bluffs—So called from a council held near there by Lewis and Clark with the Indians,

Davenport—Named for Col. George Davenport, who explored Cedar River, in 1831, to a point above Rock Creek, where he established a trading

Decorah—Named for Winnebago chief Dehere, meaning "spoon."
One authority gives spelling as Decorie.

Des Moines—Name thought to have been derived from Indian word mikonang, meaning "road"; applied by Indians in form of meingena; contracted to meins by French, who called river Riviere des Meins. Becoming associated with the Trappia menh., was incorrectly named La Riviere des Moines "the river of the works"

De Soto - Named for Hernando de Soto, the discoverer of the Mississippi River.

Dubuque—Named for French trader, Julien
Dubuque, who founded a colony at that
point in 1788, calling it the "Muses of
Span," and who maintained there a
fleurishing colony till his death in 1810.

Epworth -Named from town in Lincolnshire, England, the home of the celebrated W sley family,

Farragut -Named for Admiral Farragut.

Floyd. County. Named for Sergeant Charles Flowd, a member of the Lewis and Clark exploring party in 4854. Doing while party was in I awa, was the first white man buried in the state. A monument to his memory and in honor of the Lewis and Clark expedition, was cree total Flowd's Bluff, near Sioux City, in 1061.

Ft. Dodge—Named for General Henry Dodge, governor of Wiscom in Territory, and later United States Senator from Wisconsin.

Fort Madison -Named for James Madison, fourth President of the United States, Grinnell -Named for Hon, W. H. Grinnell.

Guttenberg - Named for inventor of printing;
place first called 'Prairie la Porte.'

Hawkeye - Named for Indian chief,

Iowa Named from tribe of Indians, first heard of in 160% in vicinity of Great Lakes; later occupied lower valley of the



From a Rithegraph portrait in McKenny's "History of the Indian Trates of North America" and reproduced by permission of the Chicago Historical Society.

F16, 68. Black Hawk, a famous chief of the Sws and Foves, born in Kaskaskia, Ill., 1760, died in Jovea, 1838.

om Indian word norm of meined river Riviere Osage - Town
Osage.



From the celefinal painting by Charles Wilson Peals, now (1987) in Independence Hall.

Fig. 69. General Zebulon Montgomery Pike, soldier and explorer, widely known as the discoverer of Pikes Peak. Iowa River—long called the Agonos by the French. Name changed to Iosooy in later years; y finally dropped; was fir t applied to a civil organization in 18 to by Lieut Albert M. Lea. The meaning of the word Iowa is said to be "this is the place."

Jesup—Named for Morris K. Jesup of New York.

Kamrar-Named for Senator Kamrar.

Keokuk—Named for the Indian chief Keokuk, head of the Sac trib's and the hated rival of Black Hawk. Name means "the watchful dog."

Keota—An Indian word meaning either "gone to visit," or "the fire is gone out."

Kossuth—County Named for Louis Kossuth, the Hungarian patriot.

McGregor—Named for an early citizen, Alexander McGregor, and notable as the place chosen by Lieut, Zebulon M. Pilac in 1825 for a military post, and long known as Pike's Hill. Its site was also included in the Giard grant.

Mahaska—County. Named for chief of the Iowas.

Marshalltown—Named for Chief Justice John Marshall.

Muscatine - Named for the Indian tribe, the Mascoutines. Name probably derived from Algon-pain word Mascoutenek, meaing "prairie," hence "prairie dwellers."

Odebolt—Town in Sac County. Corrupted from Odebeau, the name of a French trapper, who lived alone on the banks of the creek flowing through the town.

Orange City — Town in Stoux County, center of large settlement of Hollanders. Named for William IV, Prince of Orange

Osage - Township and city in Mitchell County. Named for Orrin

Osceola - County. Named either directly or indirectly for the Seminole Indian chief. The name refers to a medicine drink

run les."

used by the tribes in certain ceremonies.

Oskaloosa—Named for the wife of the Indian chief Mahaska

Ottumwa—An Indian word said to mean "place of the lone chief," but more probably meaning "rapids" or "tumbling water."

Owassa—Derived from "owasse," the Indian word for "bear,"

Page—County. Named for Colonel Page of Palo Alto fame.

Palo Alto—County. Named from the famous battlefield in Texas.

Pella—Town colonized by Dutch settlers, to whom the word meant "city of refuse."

whom the word meant "city of reture."

Peosyta -Village in Dubuque County. An

Indian word meaning "gorge in the

Pottawattamie County. Named for the Indian tribe. Word means "makers of fre," and was used to signify that this tribe assumed separate soverements by building a council fire themselys.

Poweshiek -County. Named for a chief of the Fox tribe. Name signified "Roused Bear."

Primghar — Town in O'Brien County. Named by combining the initials of the persons present at the laving of the corner stone. Redfield — Named for Colonel Redfield.

Red Oak—So named from a near-by grove of trees of this species. Ringgold—County, Named for Major Samuel Ringgold, officer of the Mexican war.

Rippey—Town in Greene County, named for Captain C. M. Rippey, an old settler.

Sac City—Named for an Indian tribe. Word refers to "yellow earth," proper form being "Osaukee."

Scott.—County. Named for General Winfield Scott.

Shenandoah—An Indian word said to mean "spracy stream."

Sigourney—Named for the poetess, Mrs. Lydia H. Sigourney.

Sioux City—So named from the Dakota or Sioux Indians of Dakota and Minnesota, the largest tribe in the United States. Word an abbreviation of their Oribway name, signifying "little snakes," i.e., "enemies."

Skunk—River in Iowa. A translation of the Indian name "checauqua."

Spirit Lake—Indian name was Minne-Mecoche-Waukon, "Lake of the Spirits," from the tradition that there were demons on an islant in the lake that destroyed all who ventured first upon its waters.

Steamboat Rock—So named because there is a large rock in the river near the town which resembles a steamboat in form.

Stuart—Named for Captain Charles Stuart of Vermont.

Tama—County. Named for Fox chief, Taimah, "the man who makes the rocks tremble."



Travels, Louise editions of US: and US: A
FIG. 70. Jonathan Carver, traveler
and writer. First American to
visit Iowa. Born in Stillwater, Conn., 17, 32, died

in England, 1780.

Titonka—Village in Kossuth County. A Sioux Indian word meaning "big house."

Van Buren—County. Named for Martin Van Buren, President of the United States.

Vinton—Township and city in Benton County, named for Hon, Plym Vinton.

Volney-Named for Count Volney, the French writer.

Wapello—Named for Indian chief of the Fox tribe. Meaning of word 'prince."

Wapsipinicon—River. So named because of the root which is found in great abundance upon its banks. Indian word said to mean "white potatoes."

Warren—County, Named for Joseph Warren, who fell in the Battle of Bunker Hill.

Washta—Town in Cherokee County. From a Stoux Indian word meaning "good."

Wanbeek — Town in Linn County. From an Indian word meaning "metal" or "metallic substance,"

Waukon—An Indian word meaning "moss on trees that is eatable."

Wayne—County, Named for General Anthony Wayne, hero of the Revolution.

What Cheer—So named by a Scotch miner when he discovered coal in the vicinity White Cloud—Town in Mills County, Named for the Indian chief, Mahaska.

Whiting—Town in Monona County. Named for Senator Whiting.

Woodbury—County. Named for Levi Woodbury of New Hampshire.

SUGGESTIVE QUESTIONS TO ACCOMPANY THE GEOGRAPHY OF IOWA

(1) Find out the approximate distances of New York, Charleston, and New Orleans from Iowa, and explain their relative importance as scaports for Iowa products. (2) What are the approximate distances of Los Angeles and Seattle from Iowa? Which is the more convenient for Iowa exports, and why? (3) Where does the watershed of Hudson Bay lie nearest to Iowa? That of the Great Lakes? The great continental watershed? (4) Find out which European country is nearest to Iowa in area. How do Iowa and Cuba compare in this respect? (5) Trace the Mississippi-Missouri watershed on Fig. 8; notice that it does not follow the highest elevation near the northern border, and explain how this is possible. (6) What is meant by a "bluff"? By a "palisade"? (7) What is meant by the statement that bluffs give "scenic interest" to northeastern Iowa? What "scenic interest" might exist in a level prairie region? (8) Explain the meaning of the heavy shading along various streams in Fig. 4. (a) How much of the Mississippi Kiver is wholly within the limits of Iowa? (10) Why is it said that the streams with large basins are likely to have better water power than those with small? (11) Why are there no waterfalls along the high banks of the Missouri River? (12) Describe the topography of surface and streams in your vicinity. (13) Suggest some reason besides the presence of trees for the settlement of Iowa pioneers along the

rivers. (14) In what sense are the Iowa lakes part of the Minnesota lake system? (15) Explain more fully why the term "drift lakes" is applied to those formed in the glacial period. (16) After examining Fig. 11 explain how the soil of Clayton, Dubuque, and Jackson counties may have been formed. (17) Name various conditions which in other states make large areas untillable, but in Iowa are almost or wholly lacking. (18) Find out something of the distinction between Iowan, Wisconsin, and Kansan drift as shown in Fig. 11. (19) What do well borings indicate as to depth of the drift in your vicinity? (20) What evidence can you find in Fig. 12 supporting the assertion that south winds bring rain? (21) Judging from Fig. 12, which counties would seem to need irrigation methods most? (22) Why are the winds from the west drier than those from the south? (23) From the statements made about climate would you expect the greater number of sunshiny days to be in the winter or in the spring? (24) Explain in connection with page 8 why Arbor Day is especially significant in Iowa. (25) What is the state flower of Iowa? Why is it appropriate? (26) In what way did the treeless condition of the country favor the early settlement of lowa? (27) What varieties of trees grow in your vicinity? Is the woodland a natural growth or the result of planting? (28) Does the heavy shading in Fig. 15 necessarily imply more productive soil in those counties? Suggest any other causes that you think might account for such shading (29) In Fig 17. Lyon County seems an unproductive area. Can you refute this idea with any other maps? (30) Why does not cotton form one of the crops of Iowa? Name some other great American crops not grown largely in Iowa, and tell why (31) Suggest some reason why Lee County shows a light shading in Fig. 19. What do Figs. 23, 25, and 30 indicate as to this county? (32) What are the principal farm products shipped from the railroad station in your vicinity? Where are they marketed? (33) Name several different occupations which would be grouped under "agriculture" in Fig 63. (34) Find out why wheat should be produced most heavily where shown in Fig. 21, and why oats should lead in a different area, shown in Fig. 23. (35) What conclusion might be drawn by comparing Figs. 21 and 23 with Fig. 12? (36) What conclusion might be drawn from comparison of northern Iowa in Fig. 28 with the same region in Fig. 12? (37) What conclusions may be drawn from comparing Fig. 30 with Fig. 12? (38) In some states the varying elevation of the surface produces variations in the farm products. How is it in Iowa? Upon what do you base your reply? (39) How do you reconcile the facts that Kossuth County is one of the heavily shaded parts in Fig. 30, and one of the lightly shaded areas in Fig. 28? (40) Why is the presence of mineral resources reckoned as an advantage to the state possessing them? Do the profits from such resources always flow into the state? (41) Why are the coal mines most worked along the Des Moines River when there is so large an area elsewhere that is known to be underlaid by coal? (42) Explain the significance of Fig. 59. (43) What is the character of gypsum in its natural state? What is done to it as preparation for the market? (44) What is the difference between clay and shale? (45) What importance have zinc and lead mines in Iowa? (46) What suggestion has Fig 35 as to the best part of the state in which to locate a factory? (47) To what extent is lowa able to supply material to its flouring mills? Its meat packing plants? Its foundries? Its lumber mills? Its printing houses? Its clothing establishments? (48) What is meant by pearl buttons? By pearl barley? (49) Which has increased more rapidly since 1860, coal production as shown in Fig. 65, or manufactures as shown in Fig. 62? (50) What merchandise makes up the interstate traffic of Iowa toward the westward? How does it differ from the eastward traffic? (51) What relation is there between the topography of Iowa and the amount of railroad mileage? Compare with Missouri and Minnesota. (52) What significance in connection with commerce attaches to the presence of railroad trunk lines within the state? (53) What is meant by calling Iowa the "first free state"? (54) During what years was French the customary language of Iowa? (55) Why does not a French element appear in Fig. 61? (56) Why were wagons used to bring the earlier settlers to lowa? What is meant by calling them "whitetopped"? (57) Explain what is meant by the Indian cessions shown in Fig. 67. (58) Find out if the Tama County Indians retain the characteristics of sayage life. (59) What is meant by a "communistic" settlement? (60) Why are not the southern states represented in Fig. 6o? (61) In what manner does the permanent school fund help public education? Does your own school profit in any way by the existence of this fund? (62) What is the purpose of a normal school? (63) Explain why the institutions shown in Fig. 41 are mostly in the eastern half of the state. (64) Explain what is meant by "reformatory" institutions; by "penal." (65) What advantages are secured by creating special schools for the blind and the deaf? By hospitals for the insane? (66) Name some of the powers of the Board of Control over the state institutions. Explain the peculiar provision in regard to political parties being represented in the Board. (67) What is meant by the "electoral votes" of the state? (68) Why is it desirable to have a legislative branch of the state government? Could the state be governed without a legislature? (69) Mention some example of the exercise of authority by the legislature. (70) Could the state be governed without an executive branch of government? Give reasons for your reply. (71) Give an example of an exercise of authority by the executive part of the state government; by the judicial branch. (72) In what way may a "special charter" make a difference in the way in which city government is carried on? (73) Why are some of the districts in Fig. 47 much larger than others? (74) Compare Iowa with Missouri as to the evenuess of distribution of population; with Nebraska. Show why differences exist. (75) Explain why Illinois and New York have great metropolitan centers, and compare them with Iowa. (76) What significance do you attach to the fact that Fig. 50 shows the larger towns all located upon the larger rivers? (77) Why is it an advantage to Atlantic to be a county seat? (78) What line of industry is meant by the reference to railway shops at Boone? (70) What is the advantage to a town like Burlington in being located directly upon the Mississippi River? (80) What farm crops supply material for the industries of Cedar Falls? Of Cedar Rapids? (81) What is the raw material used in making the cement blocks of Centerville? (82) What is meant by the "market gardening" done at Charles City? (83) Ascertain if Clinton is located upon a "trunk line" of railroad, and state whether such location would help a city, and how, (84) Explain what advantages accrue to a town by being located close to a much larger city, as is Council Bluffs. (85) What is meant by a "round house," and in what way does Creston profit by having one? (86) From what raw material is the glucose made at Davenport, and how is this product used? (87) In what way does Des Moines profit by being capital of the state? (88) What is meant by "wholesale trade," mentioned as carried on at Dubuque? How does it help a town? (89) Judging from the crops raised around Fairfield, what additional industries would be appropriate to the town? (90) Are Fort Dodge and Fort Madison military centers? If not, consult Fig. 66, and tell why they are called by these names. (91) Why is the university at Iowa City called a "state university," and in what respect does it differ from other universities in Iowa' (92) Explain how the building of a ship canal at Keokuk can be an advantage to the city. What is meant by a "national cemetery"? (03) What is meant by the phrase "market town," attached to Le Mars? (94) Explain how Marion is helped by being divisional headquarters of a railway. (95) From what raw materials are the starch and linseed oil of Marshalltown made? (96) In what way does the presence of stone quarries, as at Mason City, help a town? (97) What is meant by "stock yards" mentioned as located at Missouri Valley? (98) What industry of Mount

Pleasant is particularly dependent upon the annual wheat erop? (99) Why is Muscatine a favorable location for pearl button factories? (100) Tell if you can what is meant by saying that Oelwein is a "railroad center," and explain why such centers are desirable locations for factories (101) Oskaloosa has mineral wealth of both coal and clay. Which of these is the more important to the town, and why? (102) What is meant by a "paving-brick kiln" such as is located at Ottumwa? (103) What kinds of fruits would you expect to be shipped in quantity from Red Oak? (104) Suggest a reason why large meat packing plants are more likely to be found at western points like Sioux City than in eastern Iowa. (105) What is meant by "elevators," referred to as located at Washington? (106) Find in Fig 30 some reason why the cheese factories of Waterloo should be successful. (107) In what way can mineral springs, such as exist at Webster City, help a town? (108) Draw an outline map of lowa and locate the principal physical features and leading cities and towns. (109) Draw a similar map of the states of the northwestern section of the Mississippi Basin.

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